CHEMIST AND DRUGGIST

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APRIL 1 1961





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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 175

April 1, 1961

No. 4233

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Volume 175

APRIL 1, 1961

No. 4233

British Pharmaceutical Codex

PROPOSED DELETIONS

THE Codex Revision Committee of the Pharmaceutical Society has issued the following list of monographs which it has been provisionally decided not to include in the British Pharmaceutical Codex, 1963.

Any comments on this list should be sent to the Editor, British Pharmaceutical Codex, 17 Bloomsbury Square, London, W.C.1, before August 1.

Part I Monographs

Allobarbitone; Volatile bitter almond oil; Aminometradine; Amiphenazole hydrochloride: Arrowroot.

hydrochloride; Arrowroot.

Benactyzine hydrochloride; Siam benzoin; Precipitated bismuth; Bromoform.

Caffeine citrate; Rectified camphor oil;

Caffeine citrate; Rectified camphor oil; Carbon tetrachloride; Cassia fruit; Chenopodium oil; Chlormerodrin; Chondrus; Creosote.

Decamethonium iodide; Dichloroxylenol;

*Digitalis lanata leaf.
Saccharated ferrous carbonate; Fuller's

earth.

Geranium oil; Hexamine; Hexobarbitone; Hexobarbitone sodium; *Hydnocarpus oil.

Mandelic acid; Meralluride; Mercurous chloride; Mersalyl sodium; Methylamphetamine; Morphine tartrate.

Pepsin; Phenylmercuric acetate; Prune. Scarlet red; Anhydrous sodium phosphate; Stearic acid; Strychnine; Strychnine sulphate; Sulphacetamide; Sulphamerazine sodium; Suprarenal cortex injec-

Tamarind; Terebene; Trinitrophenol.

Part VI Monographs

Capsules of
carbon tetrachloride
creosote
ferrous carbonate
Cassia pulp
Confection of senna
Effervescent granules of sodium citro-

tartrate
Emulsion of cod-liver oil
Enema of magnesium sulphate

Eye-drops of cocaine and mercuric chloride, oily

Eye lotion of adrenaline, compound
Eye ointment of atropine with mercuric

oxide
Gelatin of zinc and ichthammol
Glycerin of boray

Glycerin of borax
Honey of borax
Infusion of

quassia, concentrated rhubarb, concentrated senna, concentrated

Injection of bismuth dapsone

quinine and urethane

strychnine
Irrigation of zinc sulphate
Lotion of lead with opium
Lozenges of
chinchocaine
potassium chlorate
Mixture of senna, compound

sodium chloride, compound

Mixture of senna, compound Mouth-wash of formaldehyde Ointment of colophony

Ointment of

mercuric nitrate strong mercury, compound mercury, dilute mercury, strong

mercury, strong Oleated mercury

Oleoresin of capsicum

Paste of resorcinol and sulphur Pills of

aloes and nux vomica ferrous carbonate

Powder of borax for nasal wash, compound Compound effervescent powder, strong

Solution of burnt sugar ferrous iodide

iodine, simple quinine, ammoniated

Spirit of camphor *Surgical spirit no. 2

Syrup of

ferrous iodide senna Tablets of

aloes and nux vomica aloin, compound digitalis, compound ferrous carbonate ferrous carbonate and arsenic mercurous chloride rhubarb and sodium bicarbonate rhubarb, compound saccharin santonin

Tincture of tolu
Vitrellae of trichloroethylene
Chloroform water, concentrated
Spearmint water, concentrated.
* Deletion of these monographs under considera-

Deletion of these monographs under consideration.

Narcotics Control

COMMITTEE'S RECOMMENDATIONS

RECOMMENDATIONS that seven substances should be subject to the provisions of the 1931 Convention in respect of addiction-producing drugs comparable with morphine, are made by the W.H.O. Expert Committee on Addiction-Producing Drugs, in its eleventh report (H.M. Stationery Office, price 1s. 9d.). The substances are:—Clonitazene (2-(p-chlorbenzyl)-1-diethylaminoethyl-5-nitrobenzimidazole), diampromide (N-[2-(methylphenethylamino) propyl]-propionanilide), diphenoxylate (1-(3-cyano-3,3-diphenylpropyl)-4-phenylpiperidine-4-carboxylic acid ethyl ester), etonitazene (2-(p-ethoxybenzyl) - 1 - diethyl - aminoethyl - 5 - nitrobenzimidazole), hydromorphinol (14-hydroxydihydromorphine), phenampromide (N-[2-(1-methylpiperid-2-yl) ethyl]-propionanilide), and phenoperidine (1-(3-hydroxy-3-phenylpropyl)-4-phenylpiperidine-4-carboxylic acid ethyl ester). Evidence submitted in regard to two analgesic benzodioxane derivatives and to ethoheptazine indicated that those compounds were not to be regarded as addiction-producing drugs. Exemption from the provisions of international control was recommended in favour of two preparations containing diphenoxylate (7-(p-methoxyben-





FAMILY PARTIES: At left, Mrs. and Mr. Clifford Jones at the annual dinner of the West Ham Association of Pharmacists (see p. 318) of which Mr. Jones was a founder member fifty-eight years ago. At right: Mr. Wombwell (a past-president) with Mrs. Wombwell and their daughter and son.

zoyl)-2-morpholinomethyl-1, 4-benzodiand 7-benzoyl-2-piperidinomethyl-1, 4-benzodioxane), a new constipating agent, but the Committee was unable to support the request for exemption in favour of dextro-phenomorphan. The Committee was concerned about reports on the abuse of amphetamines and amphetamine-like substances contained in weight-reducing medicines and emphasised the need for appropriate control measures on a national level to prevent such abuse. Attention was also drawn to the need to watch closely the development of new psychically active eompounds that might be abused by narcotic addicts, as has already occurred in the ease of SPA [(-)-1-dimethylamino-1,2-diphenylethane] in Japan. In response to an invitation from the Economic and Social Council, the Committee outlined the procedures by which the addiction-producing properties of a drug were established, but a precise eode of practices could not be drawn up at the present time for reasons inherent in the problem itself. The Committee did not think there was any case for making cannabis available for use in the extraction of antibiotic substances.

Bottle Price Agreement

RESTRICTIVE PRACTICES COURT RULING

A MINIMUM price agreement between the nineteen members of the British Bottle Association was declared contrary to the public interest by the Restrictive Practices Court on March 24. Commenting on the association's contention that ending of the agreement would lead to a price war (sec C, & D., February 25, p. 178), Mr. Justice Russell said: "Our view is that price competition in this industry in present and foreseeable conditions is not likely to lead to any disastrous consequences for the industry itself, let alone for the purchasers of glass bottles." The Court found that the main restrictions, dealing with minimum prices for "special" and "standard" containers, together with a number of ancillary restrictions, were contrary to the public interest and therefore void. "On the whole, we are satisfied that the price fixing policy pursued by the association, under the guidance of its independent chairman, has been reasonably and fairly carried out, and has not been used as a means to achieve anything approaching monopolistic extortion from its customers, Mr. Justiee Russell added, "Indeed, prices in certain eases yielded a low profit margin."

Travelling Fellowships

CARLSBERG-WELLCOME AWARDS

APPLICATIONS are being invited for the Carlsberg-Wellcome Travelling Research Fellowships, 1961-62, whose purpose is to encourage co-operation, on an exchange basis, between Danish and British research workers in any branch of the natural sciences that has a bearing upon human and animal medicine. One Fellowship is awarded annually to a candidate from the United Kingdom for a year's work in Denmark and one annually to a Danish eandidate for a year's work in the United Kingdom. The stipend may

range from £900 to £1,300 per annum (or the equivalent sums in Danish Kroner), travelling and some incidental expenses being provided in addition. Tenure of the awards starts in September. Inquiries from candidates in the United Kingdom should be addressed to the assistant scientific secretary of the Wellcome Trust, 52 Queen Anne Street, London, W.1, from whom further particulars may be obtained, Completed applications must be submitted by April 30.

Labelling of Wines

AN EXEMPTION EXTENDED

THE Labelling of Food (Amendment) Regulations, 1961 (H.M. Stationery Office, price threepence), now in force, make changes in the labelling requirements in respect of certain wines. Formerly all wines had to state the fruit basis and alcoholie content on the label except those obtained by the fermentation in the district of origin of the juice of freshly gathered grapes. The new regulations extend the exemption to all wines obtained by the fermentation of the juice of grapes, if the wines have not been subject to any process so as to alter their character.

Finland and E.F.T.A.

AGREEMENT OF ASSOCIATION SIGNED

IT was announced in Parliament on March 27 that an Agreement of Association between the member states of the European Free Trade Association (E.F.T.A.) and Finland was being signed in Helsinki that day. Under the agreement Finland and the members of E.F.T.A. assume broadly the same commercial rights and obligations towards one another as the members of E.F.T.A. have already assumed between themselves.

IRISH NEWS

THE NORTH

Ulster Chemists

MONTHLY COMMITTEE MEETING

THE March meeting of the Associates' Committee of the Ulster Chemists' Association was held in Belfast on March 13. Mr. R. J. Davidson (chairman) presided. Miss R. Brown was welcomed on her first attendance as a Committee Member. A report of the joint council meeting held on February 14 was received, followed by a report of the social subcommittee meeting held on February 27. Discussion took place on the venue of the 1962 annual dinner and dance, and it was unanimously agreed to hold it in the Orpheus restaurant. The following were approved for associateship:—

Pharmaceutical Chemists: Miss A. H. Donnelly, Miss M. M. Hughes; Apprentices: Miss M. Hackett, Mr. D. W. T. Austin.

THE REPUBLIC

THE annual meeting of the Irish Pharmaceutical and Medical Representatives' Association is being held in the College of Pharmacy, Dublin, at 8 p.m. on April 7.

OVERSEAS NEWS

AUSTRALIA

New Vaccine Distribution

FIRST supplies of a new vaccine, quadruple antigen, claimed to combine protection against whooping cough, diphtheria, tetanus and poliomyelitis, are reported to be ready for distribution in Australia. The Federal Health Minister stated in Brisbane recently that the first batch of 200,000 bottles of the vaccine was being prepared at the Commonwealth serum laboratories in Melbourne. Hitherto Australian health authorities have inoculated separately against polio and relied on triple antigen injections for protection against the other three diseases. Australia's main medical advisory body (the National Health and Medical Research Council) have discussed the distribution of the new four-in-one vaccine with Federal and State health officers.

SOUTH AFRICA

Pharmacy Course for "Coloureds"

THE establishment of a five-year course in pharmacy at the University College of the Western Cape (which caters for the Cape Coloured people), was described recently by the rector, Professor J. G. Meiring as "one of the most significant developments at the university since its establishment last year." He said the course was the first of its kind for coloured students in South Africa and would open up a new avenue of employment. He aeknowledged the support of the Department for Coloured Affairs and the Board of Pharmaeists in the College's effort to inaugurate the new course.

INDIA

Proposed Pharmacopæia

THE Indian Government's Central Council of Ayurvedic Research is proposing to prepare a standard pharmacopæia of Indian medicine. A number of works deal with ayurveda in various languages and translations, but the Council hopes to compile a universally accepted pharmacopæia in English. Besides conducting research into ayurvedic medicine the Council is working out a uniform syllabus of teaching for students of Indian medicine and doing work on the standardisation of botanical and other drugs.

FIJI

Record Number of Leprosy Cures

WITH 131 leprosy sufferers discharged as cured, 1959 was a record year in the fight against leprosy in Fiji, says the report of the medical department in that country, though no hope is held out that the disease will be eradicated in the near future. Diamino-diphenyl-sulphone (DDS) remained the standard treatment though two new drugs, diethyl dithiolosophthalate (Etisul), and a thiourea derivative known as DPT, were tested. The first did not appear to exhibit in inhabitants of the South Pacific the effects claimed for it among Africans. The second appeared to be as efficacious as DDS and further trials were commenced. Deaths recorded during the year (three) were the lowest in twelve months.

NEWS IN BRIEF

COLCHESTER chemists have been warned by police that forged medical prescriptions are being used in the town.

A CONSOLIDATED list of approved names issued since 1948 may be obtained from the secretary, British Pharmacopæia Commission, 44 Hallam Street, London, W.1. It includes the supplementary list issued in February (C. & D., February 18, p. 146).

For the second time within months, the 3,000 residents of Newhill estate, Wath-on-Dearne, Rotherham, Yorks, are without a pharmacist. The local council has been informed by Barnsley Co-operative Society, Ltd., that the Society's Newhill branch pharmacy is closing owing to lack of customers.

An exhibition of photographs by Mike Davis is open at the showrooms of Executive Cameras, Ltd., 26 Conduit Street, London, W.1, daily from 9 a.m. to 6 p.m. (Saturdays 9 a.m. to 1 p.m.) until April 8 (closed Sundays, Good Friday and Easter Monday). Admission is free.

GLASGOW Executive Council has been notified by the Drug Accounts Committee that, with the progressive approach to total full pricing, it is essential that the pricing bureau should receive an adequate volume of prescription forms for pricing within the first few days of any month. Chemists have therefore been instructed to forward prescription forms direct to the Drug Accounts Committee.

THE current quotas for trade between the United Kingdom and Bulgaria will be extended on a proportionate basis for one month from March 31, when they would normally expire, to avoid interruption of trade pending the completion of negotiations which begin early in April about trade quotas on both sides for the twelve months from April 1. Licences issued under the interim arrangement will be debited against the quotas established for that period.

THE Convention of Royal Burghs of Scotland, at its meeting in Edinburgh on April 4, will discuss a recommendation that the Government should set up a Royal Commission to review the National Health Service. It is suggested that the Commission should report on the integration of the various N.H.S. departments and administrative units with a view to increasing their efficiency.

SPORT

Golf.—South London and Surrey Pharmacists' Golfing Society, at Purley Downs golf club on March 22. Sixty-two members and visitors attended. Results: Stableford Competition for the Scotia Bowl, 1, B. Stephenson, Shooters Hill, 42; 2, H. Brown, Wilderness, 38; 3, M. Lewis, Shirley Park, 37. Eighteen and over Handicap Prize, 1, J. J. Webster, Wanstead, 39; 2, T. Skilton, Banstead, 37.

T. Skilton, Banstead, 37.

IRISH CHEMISTS' GOLFING SOCIETY, opening tournament at Dun Laoghaire, co. Dublin, March 22. Results: Strokes' competition, J. T. Foley (captain) (14), net 66; A. Cullinane (17), 67; Bogey, R. Tierney (8), 1 up; J. Lennon (9), all square; Class 1, A. Walsh (9), 68; Class 2, T. P. Gray (15), 69. Prizes were presented, at a supper in the clubhouse, by Mr. A. Davidson (managing director, May Roberts (Ireland), Ltd.). The next outing is to Tullamore, co. Offaly, on April 16.

TOPICAL REFLECTIONS

By Xrayser

Retournons

After a week of deliberate self-abnegation, I feel justified in returning to a survey of the pharmaceutical situation as it exists in the changed world brought about by the ill-advised and uninformed behaviour of the country's representatives at Westminster. Enough publicity has been afforded some of the questions and answers in Parliament to have engendered in the mind of the public the feeling that the chemist may be guilty of overcharging. (Mr. A. Manuel, for example, said (p. 294) that patients were constantly going to the chemist not knowing what had been prescribed, and as a result were overcharged.) The experience of pharmacist colleagues to whom I have spoken on the question is that they are now often expected to discuss with a customer the content of a prescription, and that doctors are in some cases instructing their patients to ask the price of items at the time of presenting their prescriptions. (Mr. Powell said that he did not think that there would be any practical difficulty for the chemist in knowing whether an item, when sold over the counter, would cost appreciably less than 2s.) Asked a question in the House on March 20 as to what consultations he had had with the professional organisations of chemists about the procedure to be followed in respect of items prescribed under the National Health Service for which the ordinary retail price was less than 2s., Mr. Enoch Powell replied: "I am in touch with the Chemist Contractors' Committee, as indicated in my reply to you on March 6." Two weeks, therefore, had elapsed since the Minister had mistakenly referred to the Contractors' Committee as pharmacy's professional organisation. Two weeks had elapsed in which the Pharmaceutical Society might have been expected to correct the Minister's error. Has the Society taken the question up with the Minister? We have not been told. Might it not have been expected that Sir Hugh Linstead would have corrected the earlier statement? I reiterate that my professional organisation is the Pharmaceutical Society. Their apparent lack of interest distresses me.

Upheaval

We are in the gravest danger of losing all that we have striven for. In your editorial comment on the report of the Council's views on branch resolutions passed in May 1960 you say that more than a hint is given in that report of possible increased use by the Council of the Statement upon Matters of Professional Conduct, particularly in reference to paragraphs 13 and 14, as a means of discipline of members. Example, in the words of Johnson, being always more efficacious than precept, members may be excused if they draw the Council's attention to paragraph 15 and its implications at the present time. One cannot expect the "code" to be treated seriously if the Council does not draw the attention both of Government and of members of the Society to the impossibility of carrying out the Minister's expectations in discussing prescriptions with patients. And what of the terms of the Therapeutic Substances Act? A question in Parliament with regard to penicillin eye ointment and its cost on prescription did not suggest that either the questioner or the Minister who replied had ever heard of any restriction in regard to the supply of penicillin. The need for informed comment has never been so clamant.

Pharmacy in France

The reports (p. 304) of the pharmacists from this country who visited France in 1960 on a fact-finding mission will interest their colleagues in this country. They seem to have made good use of their time, and they have been able to present a fairly comprehensive picture of French training and its subsequent use. The impression gained is that the pharmacist in that country has a good standing, and many in this country would like to feel that it was possible to follow more closely the lines laid down in their own student training. Discipline is apparently carried out with vigour, and they seem to have a way of dealing with rota-breakers that might well be copied here. Perhaps the most interesting description to me was that of the pharmacies themselves, for I have always had a preference for pharmacies that look like pharmacies. Strange, is it not?

BRANCH AND ASSOCIATION EVENTS

PORTSMOUTH

Ladies' Festival

THE annual ladies' festival dinner and dance of the Portsmouth and District Chemists' Association was held at Cosham on March 7. There was a large attendance of members and friends, and Dr. W. Davey (principal of the Portsmouth College of Technology) and Mrs. Davey were principal guests. Mr. L. S. SNELLGROVE (president) expressed his appreciation on receiving £50, the proceeds from local chemists' weighing machines, for the Pharmaceutical Society's Benevolent Fund. Dr. W. DAVEY proposed the toast of "The Ladies," and Mrs. L. S. SNELLGROVE replied. "Spot prizes" contributed to the success of the dancing.

Crime and Therapy

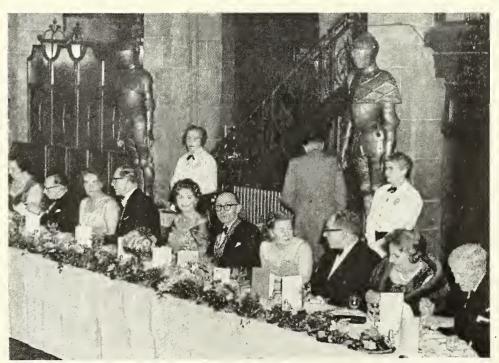
DR. P. McGrath (physician superintendent, Broadmoor Hospital) spoke at the annual open meeting of the Portsmouth branch of the Pharmaceutical Society in Southsea recently, on "The Treatment of the Psychotic Offender." Dr. McGrath was welcomed by Mrs. Mary Yoward (branch chairman). He did not intend, said the speaker, to point any connection between mental illness and crime, but to talk of patients who, whilst seriously mentally ill, had committed a major crime. In 75 per cent. of the cases the crime was murder. Four groups of illness, he explained, caused that reaction. The first was depression. In that state the patient felt he was personally responsible for all the evil in the world, and was bringing evil upon those he loved most. That led him to murder out of mercy. The subsequent shock then brought him to his senses, with a consequent increase in the depressed state. In the second group schizophrenics formed the majority of admissions. They were long-staying patients who had lost touch with their environment

and had (as far as could be discovered) committed pointless crimes. Only 30 per cent. of such patients reacted to treatment. The third group comprised those with an organic illness, such as epilepsy, and the fourth, psychopaths, who were unable socially to integrate themselves or whose emotions were "explosive and compulsive." Patients in the fourth group, said Dr. McGrath, were the cause of most of the sexual crimes. He went on to emphasise that each type had to be treated differently. Recovery was impeded by the lack of visitors and by resentments caused by the lack of privacy and inevitable walls and keys.

WEST HAM

£150 a Year for Charities

A CHANGE of venue probably accounted for a slightly diminished turn-out at the annual dinner and dance of the West Ham and District Association of Pharmacists but the new baronial setting, with helmeted knights in attendance, proved popular, especially at dancing time. A reminder that the Association was in its fifty-eighth year (the Branch in its thirty-eighth) was given by the president of the Pharmaceutical Society (MR. Tom Reid) in proposing the toast of the Association. Its area was wide, yet the attendances were, like its activities, of a high standard. He congratulated the Association especially on its refresher courses and its support for the Pharmaceutical Society's charities, amounting to little short of £1,500 in the past ten years. The excellence of its furnishings in the Cumberland Room at Birdsgrove House had shamed the Committee into raising those of the other rooms to a similar standard. In his response the Association's president (MR, R, W. J. KNIGHTS) made reference to Mr, Reid's record of service as a member of the Benevolent Fund and Birdsgrove House Committees.



THRICE KNIGHTLY: Mr. R. W. J. Knights (wearing the presidential chain of the West Ham Association) with Mrs. Knights among top-table guests at the Association's annual dinner. Two other knights in full panoply stand by as heraldic supporters.

GOLFERS' DINNERS

London Chemists

WHEN the London Chemists' Golfing Society held its annual dinner and dance at Hendon on March 9, Mr. R. L. Taylor was in the chair for the second year in succession. The member who had been elected president (Mr. G. H. Young), and who should have been chairman, unfortunately died after serving only a few weeks in office. The golfers and their guests paid tribute to his memory by standing in silence before grace was said. The Chairman welcomed the guests, and Mr. A. E.



The chairman (Mr. R. L. Taylor) with the Society's captain (Mr. R. H. Davies) and principal guest (Mr. A. E. Giberti) at the London Chemists' Golfing Society's annual dinner.

GIBERTI (from New England, U.S.A., recently arrived to work at Hendon) proposed the toast of the Society, the captain (Mr. R. H. Davies) replying. Trophies and prizes gained during the season were presented by Mrs. Taylor as follows: Aspro rose bowl and Yardley cup: R. M. Pierce-Williams; Burgoyne cup and Johnsons of Hendon prize: G. T. Morson; Butler & Crispe prize: R. M. Kean; captain's prize: J. S. Bremner; Arthur H. Cox prize: A. J. Campbell; Harker Stagg prize and Professor Flint cup: D. Carter; D. & W. Gibbs prize: J. E. Balmer; Hepburn Shield: (Dr.) H. Davis; Jubilee vase: R. C. W. Poole; Kerfoot trophy and Leichner cup: E. G. Nice; McClure Young trophy: W. S. Hutcheon; Mentholatum prize: A. L. Spratt; Morny prize: J. A. Bennett; president's prize and putter: H. A. Coward; Sanger cup and Thomson cup: R. H. Davies; Scott & Bowne "4711" prize: D. Spier; Squibb centennial trophy: M. W. Doyle; Ladies' prize: Mrs. Taylor.

South London and Surrey

With the captain (Mr. Frank R. Jamieson) in the chair, South London and Surrey Pharmacists' Golfing Society held their fourth annual dinner and dance in Sydenham on March 8. It was the biggest gathering yet and as light-hearted as the rest. Disclaiming, as a bachelor, any mastery of the "soft, smooth phrase," the captain showed himself well able to extract full meaning and emphasis from a single monosyllable, rendering other—formal—speeches unnecessary. The cartoon opposite shows that the old stalwarts who founded the Society seven years ago are still very much in evidence, with newcomers in strength enough to guarantee a continued and vigorous future.



LEGAL REPORTS

Injunction Granted

In the High Court on March 24, Gillette Industries, Ltd., were granted an injunction restraining North Supplies (Edmonton), Ltd., Fore Street, Edmonton, London, N., from selling blue Gillette razor blades and associated products of the company at less than the fixed retail prices. Giving judgment with costs, Mr. Justice Cross said that plaintiffs had to show: (1) that they had originally sold the blades subject to the conditions as to the resale price; (2) that the defendants acquired the blades with notice of the conditions; and (3) that the defendants sold the blades at prices below the stipulated resale price. Although the defendants claimed that they had not been given notice of the relevant eonditions when they bought the blades, the judge was satisfied that those conditions had been brought to their notice. Furthermore the packets bore the words: "Important notice. Sold in U.K. subject to resale price conditions." That would be sufficient notice within the Act. It must be assumed that retailers read printed matter on the goods they sold. damage which the plaintiffs had sufwas damage to their goodwill, said the judge, because other persons to whom they sold their goods, wholesalers and retailers, who observed the price conditions, would become discontented if the plaintiffs allowed cut-price merchants to go unscathed in selling their goods below the fixed price.

COMPANY NEWS

Previous year's figures in parentheses

DISTILLERS CO., LTD. — Mr. Ernest G. Gross has been appointed resident director in Australia.

ELI LILLY & CO., LTD. — Mr. T. H. Lake has been elected chairman and appointed general manager of the company.

CYANAMID OF GREAT BRITAIN, LTD. — Mr. T. J. Woodthorpe, F.R.I.C., F.A.I.C., has been elected to the board.

R. F. HUNTER (HOLDINGS), LTD.—Group profit amounted to £183,150 in the year to October 31, 1960, before tax of £92,945. As forecast when the shares were introduced to the London market in October 1960, no dividend is payable for 1959–60, but the directors have indicated a total payment of 15 per cent. for 1960–61, of which 6 per cent. is to be paid as an interim in May.

BOOTS PURE DRUG CO., LTD.—On April 1, Mr. R. C. M. Dickson (a member of the board since 1959) becomes retail director at the company's headquarters in Nottingham. Messrs. Henry J. Fraser and B. Jefferies have been appointed to the executive committee of management. Mr. Fraser (Scottish area director) takes over Mr. Dickson's post as London director and Mr. Jefferies (photographic buyer) becomes the member of the executive committee with special responsibility for stock investment, distribution and buying. The appointments coincide with the opening of the company's new financial year, when Mr. Willoughby R.

Norman takes over as chairman and Mr. F. A. Cockfield as managing director following the retirement of Mr. J. P. Savage.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Mr. Harold Smith, currently chairman of the company's general chemicals division, is to take over as technical director of the company from Dr. Richard Beeching on June 1 following Dr. Beeching's appointment as chairman of the board of British Railways. — A final dividend of 1s. 6d. per £1 unit of Ordinary Stock is recommended which makes a total of 2s. 9d. for 1960 (against 2s. 3d.). Group sales for 1960 amounted to £558 millions (£509 millions); and income, before taxation, to £88,044,000 (£73,116,000), after providing for depreciation £37,258,000; employees' profit-sharing scheme £8,564,000. Taxation provision, £40,472,000 (£31,531,000). Net income of parent company after tax £39,700,000 (£33,856,000).

NEW COMPANIES

P.C.=Private Company; R.O.=Registered Office

DISOCHEME CHEMISTS, LTD. (P.C.).—Capital £100. Subscribers: Jean Herbert and Thomas A. Herbert, 156 Strand, London, W.C.2.
PAREKEM LTD. (P.C.)—Capital £1,000. To

PAREKEM, LTD. (P.C.),—Capital £1,000. To carry on the business of chemists, druggists, etc. Directors: Herbert Roberts and Alan Winterbottom. R.O.: Duncan Street, Salford, 5.

C. L. DORSEY (CHEMISTS), LTD, (P.C.),—Capital £100. Subscribers: Hugh A. Isaacs and David M. Blackburn, 15 Wimpole Street, London, W.1.

HEYSGLANS, LTD. (P.C.).—Capital £100. To carry on the business of chemists, etc. Subscribers: Jean Herbert and Thomas A. Herbert, 156 Strand, London, W.C.2.

SPRINCES PHARMACIES, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, druggists, etc. Directors: Michael Sprince, M.P.S., and Nathan Ratoff, R.O.: 11 Molyneux Way, Liverpool, 10

Way, Liverpool, 10.

SAUNDERS CHEMISTS, LTD, (P.C.). —
Capital £3,000. To acquire the business carried on by William Saunders, M.P.S., at the Pharmacy, Trinity Street, Rhostyllen, Wrexham, etc. Directors: William Saunders and Megan Saunders.

J. S. GATLEY, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing and general chemists, etc. Directors: John S. Gatley, M.P.S., and Irene Gatley. R.O.: 2 Enfield Road, Menton, Eccles, Lancs.

C. O. WOOD, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists and opticians, ctc. Directors: Charles O. Wood, M.P.S., and Mabel Wood, R.O.: 52 The Street, Ashtead, Surrey.

MOND NICKEL CO., LTD. (P.C.).—Capital £100. Subscribers: Marion Long and Dorothy Claughton. Director: International Nickel Co. (Mond), Ltd., Thames House, Millbank, S.W.1. R.O.: Thames House, Millbank, London, S.W.1.

RICHARD GREGORY, LTD. (P.C.).—Capital £100. To carry on the business of dealers in chemicals, gases, drugs, etc. Directors: Richard Gregory, M.P.S., and Audrey F. Gregory. R.O.: 347 Kensington High Street, London, W.8.

PRINCIPAL CHEMISTS, LTD. (P.C.).—Capital £100. To carry on the business of wholesale and retail chemists and druggists, etc. Subscribers: Stanley H. Lucas and Francis A. Dean. R.O.: 6 Surrey Street, London, W.C.2. LEADING CHEMISTS, LTD. (P.C.).—Capital

LEADING CHEMISTS, LTD. (P.C.).—Capital £100. To carry on the business of wholesalc and retail chemists and druggists, etc. Subscribers: Stanley H. Lucas and Francis A. Dean. R.O.: 6 Surrey Street, London, W.C.2.

FRANK BROAD (CHEMISTS), LTD. (P.C.).—Capital £1,000. Directors: John R., Flood, M.P.S., Dorothy M. D. Flood, M.P.S., Frank S. Broad, M.P.S., and Margaret A. Flood, M.P.S. R.O.: 53 Marine Drive, Rottingdean, Brighton.

N. C. BRYANT, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing and general chemists, etc. Directors: Noel C. Bryant,

M.P.S., and Sylvia C. Bryant. R.O.: 22 Frederick Street, Sunderland.

DAVIES (CHADWELL-ST.-MARY), LTD. (P.C.).—Capital £2,000. To carry on the business of chemists, druggists, etc. Directors: Elsie Peterson, Eveline E. Davies and Audrey Brown.

R.O.: 65A High Street, Brentwood, Essex.

T. R. GOVER (SOMPTING), LTD. (P.C.).—
Capital £2,500. To carry on the business of chemists, etc. Subscribers: Reginald H. Payne and John Hallett. R.O.: 29 Euston Road, London, N.W.I.

FARTHING, GOODCHILD & RIEDL, LTD. (P.C.).—Capital £100. To acquire the business known as Thompson's Pharmacy, 91 Regents Park Road, London, N.W.1. Directors: Margaret Riedl, M.P.S., Frida M. Farthing and David C. Goodchild, M.P.S.

MAISON DOROTHY BARTON (COVEN-

MAISON DOROTHY BARTON (COVENTRY), LTD. (P.C.).—Capital £1,500. To carry on the business of dealers in toilet articles, etc. Directors: Dorothy Barton, Frances A. Hanson and Patricia Fox. R.O.: 116A Albany Road, Coventry.

DAVID I. M. HALLIDAY, LTD. (P.C.).—Capital £10,000. To carry on the business of dispensing and analytical chemists, etc. Directors: David I. M. Halliday, Margaret C. Halliday and Malcolm N. Halliday. R.O.: Holts Arcade, India Buildings, Water Street, Liverpool.

AYRTON SAUNDERS (NORTH WALES),

AYRTON SAUNDERS (NORTH WALES), LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing chemists, wholesale druggists, etc. Directors: Stanley V. Gallard and David R. Leith. R.O.: 34 Hanover Street, Liverpool, 1.

CHEMITRON PRODUCTS, LTD. (P.C.). — Capital £100. To carry on the business of dealers in chemical and pharmaceutical products, etc. Subscribers: John H. Thomlinson and Barrington J. Stead. The first director is Alexandre Larant (South Africa), R.O.: 70 Gracechurch Street, London, E.C.3.

CIBA UNITED KINGDOM, LTD. (P.C.).—Capital £3,000,000. To acquire not less than 90 per cent. of the issued shares in the capital of CIBA Laboratories, Ltd., CIBA (A.R.L.), Ltd., and CIBA Clayton, Ltd., and the whole or any part of the issued shares in the capital of the Clayton Aniline Co., Ltd., and to act as the parent company of such companies, etc. Subscribers: Ellen Tindell and M. I. Wordley. R.O.: 96 Piccadilly, London, W.I.

BUSINESS CHANGES

BOOTS, LTD., have acquired the premises of Stephen's Cash Drapery, High Street, Elgin, Morays.

THE registered office of Savory & Moore, Ltd., has been transferred to 143 New Bond Street, London, W.1.

Appointments

MISS P. G. WILLIAMS, M.P.S., has been appointed chief pharmacist, Neasden Hospital, Central Middlesex Group.

J. C. GAMBLES & CO., LTD., 209 Blackfriars Road, London, S.E.1, announce the following new appointments:—Mr. T. R. Appleby (a director of the company for some years) has been appointed managing director; Mr. J. M. Gambles has been appointed director in charge of publicity and marketing, and Mr. J. N. H. Carrington, sales manager.

OVERSEAS VISITS

MR. L. ROMP (joint managing director of the Charles Bedeman Rescarch Organisation) and Mr. Roderick L. Stephens, B.Pharm. (director and chief chemist) have been in Holland to finalise plans for the manufacture of the company's products by recently formed associate company Langkamp-Bedeman N.V.

PERSONALITIES

MR. R. C. M. DICKSON, M.P.S., whose new appointment with Boots

Pure Drug Co., Ltd., is men-tioned on p. 320, has been London and southern area director since January 1960, and previously Scottish area director for nine years. He is a Fellow of the Heriot Watt College, Edin-burgh, and



served as a governor of the college until his departure for London, Mr. Dickson joined the company as an apprentice in 1923, qualifying in 1928. He served as manager of branches in Birmingham, Worthing and Leicester, and in 1941 became one of the youngest men ever to be appointed territorial general manager by the company. In 1946 he went for a year as general manager of the associate company in New Zealand, and in 1948-49 took part in a ninemonth survey involving almost the whole of the African continent. He is a member of the council of the Multiple Shops Federation and of the Pharmaceutical Committee for the County of London.

MR. HENRY J. FRASER, M.P.S., who succeeds Mr. Dickson as London

area director of Boots Pure Drug Co., Ltd. (see p. 320), also succeeded him as Scottish director at the beginning of 1960. From August 1947 he was territorial general manager of the company's largest area, reaching from Dundee to the Orkneys.



the Orkneys.
Mr. Fraser qualified as a pharmacist in 1928 after studying at Robert Gordon's College, Aberdeen. He subsequently held managerships in Galashiels, Inverness and Aberdeen before being appointed a territorial general manager. From January to July 1956 he was a temporary managing director of Boots the Chemists (New Zealand), Ltd., and in 1960 took part in a tour of the United States, Canada and Mexico City, to study retail conditions. Mr. Fraser is a member of the Pharmaceutical General Council of Scotland. and of the Pharmaceutical Standing and Pharmaceutical Advisory Committees.

MR. B. JEFFERIES, who has been appointed member of the Executive Committee of Boots Pure Drug Co.. Ltd., with special responsibility for stock investment, distribution and buying, has been the company's photographic buyer for the past eleven years. He joined the company as a trainee in the eompany's London warehouse in 1937, and in 1939 started work in

the toilet buying office. After war service he returned to the company's toilet buying office in 1946 and transferred to the photo buying office in 1947.

Retirements

THREE employees with a total of 107 years' service were guests of honour at a special dinner given in London on March 24 by Parke, Davis & Co., to mark their retirement. They were Mr. H. A. D. Murray (house manager) who retired after fifty-one years' service with the company; Mr. C. R. Pennington, M.P.S. (forty years as representative in the Bristol area); and Mr. C. Beaven, F.P.S., A.R.I.C., F.R.S.M. (manager, medical service department), who retired after sixteen years' service. After the dinner Mr. Leslie O. Smith (general manager in the United Kingdom), made presentations to the guests on behalf of their colleagues.

MR. NORMAN DEWEY (home sales manager, Allen & Hanburys,

Ltd.), retired on March 30. Mr. Dewey, well known to pharmacists all over the country, commenced his career by serving a five-year apprenticeship with Lofthouse & Saltmer, Ltd., Market Place, Hull. He quali-fied from "The The Square " and made many



friends in his year (1921-22). gaining experience in retail management, he joined the staff of Messrs. Allen & Hanburys in November 1924 as assistant to the late Mr. E. C. Cripps. In 1925 he commenced his career as a representative and his cheery, friendly north-country approach won him a wide circle of friends in retail pharmacy in West and South-west London and various parts of the Home Counties. In 1944 he was appointed home sales manager, and the years that followed were, for the company, a period of uninter-rupted growth and expansion in the home market. In the past twenty years Mr. Dewey has taken an increasing part in pharmaceutical affairs. He was a member of the council of the Proprietary Articles Trade Association from 1946 to January 1961 and its president in 1956. For many years he was a member of the council of the Chemists Federation and its president in 1951. From 1947 onwards he was a member of the council of the Association of British Pharmaceutical Industry for approximately ten years, and was the company's representative on the Malt Association, 1944-61. Always an enthusiastic supporter of his local branch of the Pharmaceutical Society (Thames Valley) Mr. Dewey also found time to work hard on the organising committees for the International Pharmaceutical Federation congress in London in 1955 and the British Pharmaceutical Conference in London in 1953. He will be remembered by many branch supporters as a member of the "roving brains

trust" that was so popular a few years ago; his ready wit drove home many a shrewd appraisement on contemporary pharmaceutical matters. To this day Mr. Dewey takes an active interest in the Square Association, and recently presented the School of Pharmacy, University of London, with a carving of the School's coat of arms—a beautiful piece of hand carving done for him by a fellow pharmacist (Mr. Frank Davis, New Malden).

MARRIAGES

DAVIDSON — IRELAND. — At Forth Parish Church, Forth, Lanarks, recently, James Davidson, M.P.S., Law Hospital, Carluke, Lanarks, to Shirley Ireland, Forth.

WALKINGTON—GILLESPIE. — At Mosside Presbyterian Church, Ballymoney, co. Antrim, Northern Ireland, recently, Thomas Walkington, Portrush, co. Antrim, to Edith Ann Gillespie, M.P.S.N.I., 16 Dhu Varren, Portrush.

DEATHS

BRADDOCK.—Recently, Mr. John Braddock, M.P.S. (manager, bulk sales department, Glaxo Laboratories, Ltd., Greenford, Middlesex), aged fifty-five. Mr. Braddock joined the company when he was twenty-nine and became well-known in the north-east of England as a representative. At the outbreak of the 1939-45 war he joined the Services but was later invalided out and subsequently had not enjoyed good health. During recent years Mr. Braddock travelled widely on the Continent on behalf of the company. He was a keen amateur photographer and a member of the Royal Photographic Society. His work was often shown at that Society's exhibitions. He was also known for his water colour paintings.

Mr. O. F. Morgan, Home Sales Director, Glaxo Laboratories, Ltd., writes: "Jack Braddock had been extremely ill for several weeks but was recently removed from the danger list. We had all hoped he would make steady progress. All those who came to know him during his representative days and, more recently, while in the London area will miss him greatly."

FYFE.—At Victoria Hospital, Kirk-caldy, Fife, on March 23, Mr. Hunter Dawson Fyfe, M.P.S., 15 Queen Street, Alloa. Mr. Fyfe qualified in 1925.

SMEDLEY. — On March 22, Mr. Lionel Graham Smedley, M.P.S., 15 Aberdeen Gardens, Leigh-on-Sea, Essex. Mr. Smedley qualified in 1920 and, after managerial experience in various parts of the country, opened the pharmacy of Smedley & Relph, Ltd.. Leigh-on-Sea, in 1936. Except for a short period during the 1939–45 war when that business had to be evacuated he was actively concerned in its organisation until ill-health recently forced him to take things easier. He was well known in local pharmaceutical circles and in many welfare organisations.

Mr. E. W. Jones writes: "Smed" as he was known to his friends was a fine man who would always help a friend in need. He will be sadly missed by his friends and colleagues—for once you knew Smed you never forgot him

and he never forgot you."

Commons Discuss Pharmaceutical Ethics

"NO QUESTION OF ANY INTERFERENCE"

THE question of the professional ethics of revealing the cost and content of medical prescriptions was raised in the House of Commons by Mr. B. T. PARKIN on March 23. He referred to the assurances that had been given that items costing less than 2s. would be recognised on a prescription, and the patient charged the "normal" price. It was something that "would work out when chemists and the public became accustomed to using that machinery." He continued, "It seems, however, that there is no immediate prospect of that working out, because pharmacists are disgruntled by the intrusion into their system of professional ethics in this matter." A mother who had taken a prescription to a chemist had asked "What is this? What will it cost?" The chemist was indignant and replied "I cannot tell you either of those things. It is against the professional ethics of pharmacists. It does not matter what the Minister has said. It can-not be done."

Mr. Parkin said he then sought the advice of the chairman of one of the regions of the union representing the pharmacists to "ascertain the weight of their objection." What the pharmacist says is that he must respect the secrecy of the doctor's prescription and that the doctor is entitled to protection by the pharmacist of the confidential nature of his prescription if he chooses to prescribe, appropriately to the nature of the complaint, something which the patient might consider trivial, not sufficiently costly and not sufficiently effective to change his or her condition.

"The situation therefore, as I understand, is that if the doctor chooses to write on a prescription form "25 aspirin tablets" the patient can read it and knows what it means, and the chemist can say, "You see what this is. You can have twenty-five tablets for sixpence over the counter or you can pay 2s. for having the prescription dispensed." But if the doctor writes "Tabs acetylsalicylic acid, 5 grains" and the formula for taking one three times a day, as a professional secret the pharmacist is not entitled to say, "this is only aspirin. Give me sixpence and you can have twenty-five tablets."

MR. PARKIN suggested that the Minister should consult the professional organisations and try to get back on to the doctor the responsibility of deciding whether or not the nature of the prescription could be revealed. He did not know how it could be done, "but it ought to be the doctor's decision rather than the pharmacist's whether these things can be sold at less than 2s. Perhaps the Minister will have these consultations and seek an administrative way out and then cause a statement to be printed by his Department and distributed for hanging up in places where prescriptions are dispensed."

There was another difficulty in that hospitals did not have "a little cash chemists' shop" in the out-patients' clinic.

MR. KENNETH ROBINSON observed that, if a chemist had to look at every item on a prescription form to see whether any item would cost less than two shillings, it would undoubtedly put a considerable additional burden on "It will be a time-consuming process if he does it conscientiously and honestly, as the majority of chemists will do it. But those who are less conscientious have a built-in disincentive to do anything of the kind. . . Minister could say that, if an item is sold retail over the counter, the chemist will get his retail profit margin on it, but he gets an oncost on the in-gredients when he dispenses a prescription, which I would guess is roughly the same. He gets a dispensing fee in addition, and, therefore, if he is honest with the customer and tells him he can get an item across the counter, have the prescription marked 'Not Dispensed'... he will lose his dispensing fee." Those were comparatively trivial objections compared with those concerning the relationship between the chemist and the doctor. He believed the Minister had been far too casual on that matter. Doctors he had spoken to had said they expected their prescriptions to be dispensed as they were sent to the chemist. Another unintentional consequence of the new charge was that manufacturers of proprietary drugs would feel the public was conditioned to regard two shillings as a sort of minimum figure for a drug supplied over the chemist's counter.

MR. ENOCH POWELL (Minister of Health) in his reply said "I say clearly and emphatically that nothing I have said alters, or can alter, the ethical and other obligations of the chemists. The duty of the chemist, and what he can do within the ethical rules of his profession, is in no way altered, and cannot in any way be altered, by anything I have said.

Moreover, nothing I have said about the sale of items costing less than 2s. retail differs from what has hitherto obtained with regard to the sale of items costing less than 1s., so that no new principle or new procedure is introduced, and no statement of mine in

reply to questions has been intended

to imply that there is any innovation.

The situation is this. Where, within his duties and within the proper procedure, a chemist would be able to sell an item retail over the counter for less than 2s., I expect that he will do so, and there is a recognised procedure which he then follows for marking a prescription form. That does not mean that there is any alteration or modifi-cation in the way in which he is entitled to treat a prescription form from a doctor whether it is an EC10 or a prescription . . . for a private patient." He was advised that where the actual dispensing of a prescription was in question "it would be rare to the point of impossibility for an item sold retail over the counter to be charged for at less than 2s. . . . In practice, we are here dealing only with cases where, within the rules of his profession and within what he is entitled properly to do, the chemist would be selling an item over the counter—and it would be only a very simple item—for a sum less than 2s." MR. K. ROBINSON asked if the Minister meant that when a dispensed item was sold over the counter the dispensing fee was such a large part of the 2s. that the total would probably be above that?

MR. POWELL replied that was exactly the case and was "a large part of the answer in regard to hospital out-patient departments. The overwhelming majority of items, if bought on private prescriptions would cost more than 2s.

Nevertheless, where a simple item such as bandages or kaolin was prescribed he did not doubt that the dispenser at the hospital dispensary would say to the patient "This is an item which you can get at the shop down the road."

He repeated that, in the overwhelming majority of cases where there was actual dispensing involved, and not some appliance or item of ordinary use, then the patient was not getting an item that would be obtainable on prescription at less than 2s, across the counter.

tion at less than 2s, across the counter.
Although the situation was only a further application of arrangements that were in existence and were understood, he was considering, with representatives of the profession, whether any further guidance was required. It was too early to come to any conclusions on the effect of the charge, on prescriptions or the yield. He recommended a suspension of judgment regarding the cost of proprietary medicines and ended "One final thing I should like to say. I began by emphasising that nothing which I do or intend, or, indeed, can do, can effect the ethical duties of the chemists. I want to end by saying that, although it may perfectly well be true that in the individual case it might pay the chemist to dispense on an EC10 an item he would be entitled to sell for much a smaller figure across the counter to the customer, I have not the slightest doubt that the chemists in this matter as in others will deal cthically, that they will play fair by the customers. This is really a theoretical difficulty. I do not believe that chemists, in practice, will be in any hesitation about fair treatment of their customers... I have been glad of the opportunity to re-emphasise... that there is no question of any interference with the accepted standards and procedures of the pharmaceutical profes-

IN PARLIAMENT

Decimal Coinage

MR. J. HOWARD was told by MR. R. A. BUTLER (Home Secretary) on March 23, that he could not at that moment promise a definite date to discuss a motion relating to decimal coinage.

Retail Price Maintenance

MR. REGINALD MAUDLING (President of the Board of Trade) informed MR. F. NOEL-BAKER on March 16 that the

Board of Trade inquiry into retail price maintenance was not yet complete.

Monopolies Commission

April 1, 1961

MR. A. E. ORAM asked the President of the Board of Trade which suggestions reviewed by the Board under Scction 16 (2) of the Monopolies and Restrictive Practices (Inquiry and Control) Act, 1948, since the operation of that Act, still appeared to be within the purview of the Monopolies Commission but had not yet been referred to the Commission. MR. R. MAUDLING, in a written reply on March 16 stated that suggestions relating to the alleged pre-

valence of monopoly conditions in the supply or processing of goods had been received in respect of a wide variety of goods, including anti-freeze solutions for motor vehicles; chemicals; electric shavers; photographic goods and materials, including colour film; razor blades; soap; soap powders and detergents; soda crystals; sodium bichromate, and sugar. Among the suggestions that had been received relating to the alleged existence of restrictive arrangements or agreements not registrable under the Restrictive Trade Practices Act, was the item "monopolies in retail distribution."

Purchase Tax

MR. J. D. N. NABARRO asked the Chancellor of the Exchequer why he imposed purchase tax at the rate of 50 per cent. on certain barrier creams despite the fact that they were substantially used in factories for the prevention of occupational dermatitis. SIR EDWARD BOYLE (Financial Secretary, Treasury) in a written reply on March 22 stated "that was the rate to which the creams, if perfumed, were liable in law." Sir Edward Boyle then went on to say that the questioner would not expect him to anticipate the Budget statement.

PHARMACOLOGY AND FORENSIC PHARMACY

A "double bill" of papers at Glasgow

ONE of the most striking shifts of emphasis in pharmacology since the 1939-45 war had been from drugs acting predominantly upon sites in the peripheral autonomic nervous system to others acting on the central nervous system. That was the summing-up of MR. J. J. Lewis, F.P.S., when he addressed the Glasgow and West of Society in Hamilton, Glasgow, recently on "Drugs Acting on the Central Nervous System." The outcome of much recent investigatory work, he said, had been the introduction of three new groups of drugs into psychiatric medicine: the tranquillisers; the anti-depressives; and the psychotomimetics. The most important tranquilliser was chlorpromazine, and though a number of chemically related phenothiazine derivatives had been introduced which might be as effective as chlorpromazine, they had not replaced it in the treatment of severe mental illness. When chlorpromazine was not effective, the indole alkaloid reserpine might be useful. That compound produced in the second treatment of the compound produced in the second treatment of the second duced similar results to those of chlorpromazine, but by an essentially different mechanism. Chlorpromazine might be looked upon as causing central parasympathetic predominance by antagonising the central actions of noradrenaline, postulated to be the central sympathetic (ergotrophic) transmitter whereas reserpine liberated 5-hydroxytryptamine from sites in the brain at which that substance was bound in an inactive form, and so produced direct central parasympathetic (trophotrophic) predominance by increasing the amount of free trophotrophic transmitter in the central nervous system.

Psychotherapeutic Agents

The antidepressives were used mainly in the treatment of endogenous depression, usually as adjuncts to other forms of psychotherapy. The most important and effective of them appeared to be imipramine. The monoamine oxidase inhibitor iproniazid was also effective, but prone to cause liver damage. Certain related antidepressive hydrazine derivatives, including phenelzine and nialamide, also inhibited monoamine oxidase. A number of antidepressives inhibited monoamine oxidase, but the introduction of imipramine, which had antidepressive activity, but which was not a monoamine oxidase inhibitor, made it doubt-

ful whether the two types of activity were linked. Mr. Lewis emphasised that the tranquillisers and antidepressives, though a decided advance in psychopharmacology, had not replaced the more established forms of psychotherapy. Much still depended upon such things as the staff-patient ratio in hospitals, and the extent to which social measures were applied.

Pharmacists and the Law

At the same meeting Mr. D. H. O. GEMMELL, B.L., F.P.S., spoke on "The Pharmacist and Claims under Common Law." He gave an account of pharmacists' duties in supplying and dispensing medicines in relation to possible claims for negligence. He pointed out the differences between English and Scottish Law in that respect. Mr. Gemmell stressed the similarity of many proprietary tablets to sweets, and the consequent danger to children having access to such tablets. He urged that the pharmacist should exercise sufficient care to ensure that no preventable accident could arise. Negligence might be claimed under common law even if the person acted with normal care. A duty of care was owed only to those acting with normal legal right, and that duty was greater towards children and aged or infirm persons than towards a normal adult. Contributory negligence could be brought up as a defence of a claim for negligence.

In the discussion that followed Mr. MAIR asked whether, if a pharmacist were mistaken in the translation of a doctor's prescription, though in no doubt of the medicament ordered on the prescription, a claim for negligence could be made. Mr. GEMMELL replied that no claim for negligence could be made if normal skill and care had been applied in translating the prescription. MR. PRINGLE asked if any claim for damages could be made against a drug house if a child mistook tablets for sweets. Mr. Gemmell said that the person leaving tablets about was negligent. Mr. SELLAR said that two doctors in his area invariably omitted to state the age of a child on a prescription. If an error in dispensing occurred through that omission, occurred through that omission, could the pharmacist be considered negligent? MR. GEMMELL replied "If you know the doctor's habit, you are negligent if you do not inquire." MR. SCATCHARD asked what action the pharmacist should take over small children sent to collect prescriptions. That was a difficult question and would depend on normal practice said MR. GEMMELL, but the pharmacist should check on the children concerned.

EXPANSION PLANS

MERCK & CO., INC., New Jersey, U.S.A., announced on March 9 that the international division of Merck, Sharp & Dohme would spend \$500,000 (£180,000) this year to expand its Morson chemical manufacturing facilities at Ponders End, Middlesex. This brought to \$1.5 million the company's investment at the plant since acquiring Thomas Morson & Son, Ltd., in 1957.

A FUMARIC acid plant with a capacity of 5 million lb. a year is being built at the Newport, Mon, factory of Monsanto Chemicals, Ltd. It is scheduled for completion in 1962 when it will replace interim manufacturing facilities. The new fumaric acid capacity will be an important supplement to the 15 million lb. a year capacity of the company's maleic anhydride plant recently completed at Newport.

THE two companies—Strathmore Springs, Ltd., and Ferguzade, Ltd., Forfar—arc to be telescoped under the name of Strathmore Springs, Ltd., and, in addition to manufacturing the traditional soft beverages, the firm will enter the field of medicinal products. Building construction on a new £20,000 factory is to start in April to double output. Provision is made for a new laboratory. The export business, which is at present extensive, will be stepped up.



A beauty expert gives a demonstration of the company's products at the stand of Max Factor Hollywood and London (Sales), Ltd., at the Daily Mail Ideal Home exhibition.

TRADE NOTES

A Larger Size. — Upjohn, Ltd., Fleming Way, Crawley, Sussex, are making immediately available a 15-gm. size of Neo-Medrone Veriderm.

Change of Container. — Bradosol lozenges are now being sent out by CIBA Laboratories, Ltd., Horsham, Sussex, in carton and tube conforming with the company's style for its other



specialities. The lozenges are unchanged and it is not intended to exchange stocks of tubes of the previous pattern.

Saturday-before-Easter Service. — THE BRITISH DRUG HOUSES, LTD., are maintaining at Graham Street, London, N.1, on April 1 an emergency service to their chemist customers. — GEIGY PHARMACEUTICAL Co., LTD., Roundthorn Estate, Wythenshawe, Manchester, 23, are operating a normal service on April 1.

Price Cut.—Cyanamid of Great Britain, Ltd., reduced on March 27 the price of the 100-c.c. (fifty-dose) bottle of Pigdex. The product was introduced in November 1960, after extensive trials that were stated to have shown that a single injection of 200 mgm. of iron prevented anæmia in piglets and produced a marked increase in weaning weight.

Award for an Electric Blanket. — A silver plaque that was presented by the Electrical Engineers' Exhibition for the year's most outstanding exhibit in the domestic electrical products field was won by Easipower Appliances, Ltd., 30 High Street, Southampton, for their Dreamland three-heat luxury electric blanket with patented "safety-seal" construction (see C. & D., March 25, p. 297).

Sole Distributors. — Hormo-Pharma, Ltd., 121 Norwood Road, London, S.E.24, announce that, on April 1, Martindale's, 14 Bruton Street, New Bond Street, London, W.1, become the sole distributors for the United Kingdom, Northern Ireland, Eire and the Channel Islands for Okasa "20th-century tonic." The product is available in standard size of 100 and trial size of fifty tablets.

Photographic Exhibitions.—Bradley & Bliss, Ltd., Kings Road, Reading, are holding their annual photographic exhibition at the George Hotel, on April 5 and 6. A simultaneous display of sundries and surgical instruments is being staged. Displays of seasonal photographic equipment are also being made at the Chaucer hotel, Canterbury, May 10 and 11; the Rosalind hotel, Hastings, April 26; and the Swan and Sugar Loaf hotel, Croydon, May 3. The

company's representatives will be in attendance on stand 117A throughout the International Photo-Cine Fair at Olympia, May 29 to June 3.

Skin Prophylactic.—Kerodex "double seven," makers of which are Scientific Pharmacals, Ltd., Innoxa House, 436 Essex Road, London, N.1, is a bland preparation formulated to prevent skin irritations caused by pressure, friction and external irritants. It is claimed specially useful in the management of irritations in the post-operative treatment of the skin following colostomy, ileostomy, hæmorrhoidectomy, etc., and in dealing with the effects of incontinence and pressure brought about by bedridden patients. Hands in intermittent contact with solutions of disinfectants or detergents benefit when treated with it before and after work.



Above: Hard 'n Fast pressurised nail-varnish spray (Osborne, Garrett & Co., Ltd., 51 Frith Street, London, W-1). At right: The recently improved pack of

recently improved pack of Niagara blackcurrant drink (Barnett & Foster, Ltd., Queensbridge Road, London, E.8).

BLACKCURRANT

DRINK

Metabolism "Mapped." — A visheet entitled "Metabolic Pathways an attempt by D. E. Nicholson (school of medicine, Leeds) to provide a ready reference map to the more important aspects of metabolism. Colours differentiate between carbohydrate, amino acid, lipid, purine and pyrimidine and co-enzyme metabolism, but their incorporation on a single map stresses their essential inter-relationships. Three fourcolour editions are available: A 30 x 40-in. varnished, linen-backed paper with metal edged top and bottom, supplied in cardboard tube; a 30 x 40in. paper, rolled in cardboard tube for teaching purposes and wall display; and a 10 x 15-in. reduction intended primarily for students' personal use. The "maps" are obtainable from L. Light & Co., Ltd., Poyle Colnbrook, Bucks, at 10s. and 7s. each and 7ss. per 100 respectively.

Father's Day, 1962.—At a meeting held recently in London of interests likely to benefit from a well-established Father's Day, it was overwhelmingly agreed to plan a national promotion for a Father's Day in June 1962. The trades represented included men's toiletries



IN MODERN DRESS: Tube (containing fifteen tablets), carton and outer of twelve cartons which Lobidan tablets (deterrent against smoking) are being issued. Distributors are Uni-Pharma, Ltd., 109 Kingsway, London, W.C.2.

Organisational Changes.—Under organisational changes within the Aspro-Nicholas group, the former divisions have been given company status. As a result, the marketing in the United Kingdom of all products, other than ethical medical specialities, is from April 1 being carried out by Nicholas Products, Ltd. The product range includes Aspro, Rennies, Kwells, Bronchipax, Kruschen salts, Radox and Trugel. Nicholas Products, Ltd., are also to be responsible for the toilet preparations range of Fields of Bond Street, which are being marketed by a separate sales division within the company. Nicholas Laboratories, Ltd., take over the marketing and distribution of the products previously handled by the ethical pharmaceutical division: Ambramycin, Arthripax, Asmapax, Barbidex, Dapta-zole, Dexten, Eneril, Englate, Liposta-bil, Megimide, Megobar, Menopax, Mylomide, Polycrest, and Spastipax. Nicholas Laboratories, Ltd., are acting as distributors of the E.G.H. Laboratories' products Algesal, Parmacetyl, Chardox and Rasprin. From April 1 orders and inquiries for those products should be addressed to the relevant company at 225 Bath Road, Slough.

Bonus Offers

FASSETT & JOHNSON, LTD., 86 Clerkenwell Road, London, E.C.1. He-tan after-shave lotion. Twelve invoiced as ten. Until May 31.

IMPERIAL CHEMICAL INDUSTRIES, LTD., Pharmaceuticals division, Alderley Park, Ches. Savlon two-purpose barrier cream. Bonus offer (see C. & D., March 18, p. 273), only through the company's representatives.

REDESIGNED PACK AND OUTER: Savion two-purpose barrier cream, manufacturers of which are Imperial Chemical Industries, Ltd., phar-



NEW PRODUCTS AND PACKS

A New Anticonvulsant. — In a new speciality Ospolot, FBA Pharmaceuticals, Ltd., 37 Bedford Row, London, W.C.1, present, in each scored tablet, 0.2 gm. of tetrahydro-2-p-sulphamoylphenyl-1,2-thiazine 1,1-dioxide, a compound with anti-convulsant properties. The packs are containers of fifty and 250 tablets.

Appetite Suppressant.—A new speciality of Genatosan, Ltd., Loughborough, Leics, Levonor tablets for the suppression of appetite in the control of obesity is being released for sale nationally on April 4. Each tablet contains 5 mgm, of laevo-amphetamine alginate. Advantages claimed for the product are that it causes no central-nervous-system stimulation; that cardiovascular side-effects from its use are negligible; that the drug may be taken as late as 8-9 p.m. without disturbing sleep; and that neither tolerance nor habituation develop. Levonor is subject to P.I., PI.S4B, of the Poisons Rules.

Controlling Agitation.—A new agent announced by Smith Kline & French Laboratories, Welwyn Garden City, Herts, for the control of agitation and subsequent insomnia is Amylozine, a combination of Stelazine brand trifluoperazine, 2 mgm., and amylobarbitone, 64-8 mgm., presented in Spansule sustained-release capsules. Amylozine is a sedative claimed specially suitable in chronic agitated psychoneurotics and acutely apprehensive patients whose state of mind is marked by fatigue, insomnia, phobias, vacillation, moodiness and fear. Each Spansule capsule provides twelve-hour continuous therapy with a single dose. The packs are containers of thirty and 250.

Small Soluble Saccharins.—Thompson & Capper, Ltd., Speke Hall Road, Liverpool, 24, have introduced a new small soluble saccharin tablet, Minisax, in a blue printed white "dispenser" pack—a plastic disc 1½ in. in diameter and ¾ in. in thickness with a closable aperture in the thickness for delivering one tablet at a time, The "dispenser" packs are issued in a display outer of thirty-six, the theme of which is repeated on a showcard, size 10 x 8 in., also available.

Restricted-calorie Diet. — With a new speciality Quota, the calorie content of the diet is restricted and all carbohydrates above a fixed level are omitted. In an 8-oz, tin (one day's sup-



ply) there are 900 calories plus protein, fat, and vitamins A, B, C, D, giving a mineral and vitamin content equal to, or greater than, the normal daily requirement as approved by the British Medical Association. Quota is claimed the first slimming diet produced by a food manufacturer. Made by Quaker Oats, Ltd., Southall, Middlesex, Quota contains milk protein, plus egg albumin, an ingredient not, it is understood, included in other slimming products. It is at present only available in the London Television area. Quota is supplied in case of twelve cans of assorted flavours (six chocolate, three banana and three vanilla). It is intended to be sold by both chemists and grocers.

Range Now Includes Perfume.—
Morny, Ltd., 201 Regent Street, London, have added to their range of sandalwood soap and toiletries Sandalwood perfume itself.

Spray Mist.—Bourjois, Ltd., 2 Old Bond Street, London, W.1, are offering an additional product in their "Evening in Paris" series: a spray mist, in spray bottle of Paris blue capped in jeweller's gold. The "elegantly sculptured" flask is in a Paris-designed box.

Eight-day Hair Set.—Dendron Distributors, Ltd., 94 Rickmansworth Road, Watford, Herts, announce the introduction in this country from America of an eight-day hair set, Perform, Issued in a spray container, Perform is "neither a lacquer nor a perm," but is claimed "to create soft waves and curls

that stay in for eight days with no more nightly pin-ups."

Baby Soap.—Cuxson, Gerrard & Co., Ltd., Fountain Lane, Oldbury, Birmingham, announce the introduction of a presentation display carton of three tablets of their Sanoid baby soap. It is printed in pink and blue, and each tablet is wrapped in transparent tissue. The tablet is egg shaped for more convenient and economical use.

Deodorant and Anti-perspirant.—Packed in a light polythene container with pink top, the new Free and Easy deodorant and anti-perspirant of Innoxa (England), Ltd., Innoxa House, Essex Road, London, N.1, is speedily applied by removing the cap; tipping the bottle up once; and rolling on the liquid under the arms. The consistency and flow of the liquid is claimed to moisturise the roller with the precise amount of fluid necessary. Before leaving the factory each container has been individually prelubricated, and an antisticking ingredient has been used in the formula. Slowness to dry has, it is understood been overcome.

Disposable Polythene Gloves. — A new, lightweight disposable type of polythene glove, hitherto available only for surgical and hospital use, is now generally available from Portland Plastics, Ltd., 197 Knightsbridge, London, S.W.7. Designed and intended primar-



ily for medical purposes, they may be used once and thrown away. They are ultra-light, transparent and have such a thin texture that no loss of sensitivity to touch is experienced by the user. In industry, use of the gloves protects specialised components from corrosion arising out of contact with operators' hands, consumable goods from becoming contaminated. For home use they protect the hands, Each glove is internally dusted with talcum for ease of fitting and removal. The gloves are issued in bag of 100 (fifty pairs).



REPACKAGED SERIES: The turtle-oil series of H. Bronnley & Co., Ltd., as repackaged by the continental designer, Hermann Hecht. Recently Messrs. Bronnley added to the range a "Sweet Briar" variety, with "flowery perfume reminiscent of summer hedgerows." It is available as toilet and bathsize turtle-oil soap, and as "Sweet Briar" hand lotion and talcum powder.

INFORMATION WANTED

The Editor would appreciate information about the following:

Anne Graham vibrette Honey and cod-liver oil tulle

N.H.S. ACCOUNTS, 1959-60

Pharmaceutical services costs

ENGLAND AND WALES

THE amount paid to pharmacists in England and Wales for dispensing fees in the year 1959-60 was £13,335,000; in Scotland it was £1,806,000 during the same period. The cost of drugs and appliances was £48,285,000 in England and Wales and £5,201,000 in Scotland. and Wales and £5,201,000 in Scotland. These figures are given in the Summarised Accounts 1959-60 published by H.M. Stationery Office (Nos. 147 (Scotland) and 148 (England and Wales), price 3s. and 2s. respectively). The additional cost to the Exchequer for the Pharmaceutical Services in Scotland in 1950-60, was £501-800 (or \$2.56 per in 1959-60 was £591,800 (or 8.56 per cent.) more than in 1958-59. The gross sums due to chemists for dispensing prescriptions rose by £639,760, the number of prescriptions dispensed was

21,832,000 at an average cost of 92.02d. (20.608,000 and 89.8d, in 1958-59), Payments to medical practitioners providing pharmaceutical services in Scotland rose by £16,000. A detailed analysis is given of the average weekly cost of niaintaining an in-patient in an acute non-teaching hospital operating the main scheme costing system in England and Wales. Of the total net in-patient cost of £25 12s., drugs account for 16s. 11d., dressings, 5s. 9d., medical and surgical appliances and equipment 14s. 6d. Under the heading indirect expenditure, the dispensary costs are 4s. 1d. Drugs, dessings, instruments cost the Scottish Regional Hospital Boards £2,390,000 during the year or 6 per cent. of the gross hospital running cost.

122

. . .

8,949

7,503,585

5,201.000

1,317,000

172,000 £8,496,000

£ 1,806,000

7.125

TOTAL ...

. . .

. . .

To pharmacists (excluding rota fees):— (a) for supply and dispensing of drugs and appliances 73,043,310 15,245 (b) Less net repayments 73,028,065 (c) Less charges to patients 11.077.312 61,950,753 288,282 To pharmacists for rota scheme To medical practitioners for supply and dispensing of drugs and appli-2,425,518 ances, less charges, etc. Superannuation contributions for medical practitioners and other pay-94,256 ments TOTAL ... 64,758,809 Notes (1) Payments to pharmacists (items 1 (a) and (b) above):— (i) Dispensing and rota fees (ii) Cost of drugs and appliances 13,335,000 48,285,000 (iii) Allowance for overheads and profits 11,710,000 (2) Special interim payments (item 1 (b) above):— Repayments during year ... 74,365 Less Issues during year to new contractors ... 59,120 15,245 Total amount of special interim payments outstanding at March 31, 1,501.725 Prescription charges collected by doctors amounting to ... 213,972 (3) SCOTLAND 1. Payments to pharmacists:— £ ••• 8,495,949 (a) gross sums due ... ••• (b) less charges to patients 1,163,448 ... 7,332,501 Payments for reta scheme 4,956 Payments to medical practitioners for supply and dispensing of drugs, etc.:-(a) gross sums due 151,127 (b) less charges 151,127 Superannuation 6,052 Provision of services at Health Centre: -(a) Pharmacists' salaries, etc. 1,702

In addition to the charges reported at items 1 (b) and 3 (b) above, the following were also paid by patients:—(i) £14,188 collected by doctors; (ii) £2,639 paid by means of postage and (iii) £1,231 paid by patients at health centre pharmacy.

(b) Superannuation contributions (Council's share)

(c) Cost of drugs and appliances

(i) Dispensing fees (ii) Cost of drugs and appliances

(iii) Allowance for overheads and profit ...

(iv) Container allowance

Breakdown of item 1 (a) above:-

(i) Dispensing fees ...

Correspondence Letters when received must bear the name and

address of the sender, not necessarily for pub-lication. The Editor does not hold himself responsible for the views expressed,

Details, Please

SIR,—The letter from "Still very resigned" (C. & D. March 11, p. 248), must have caused much speculation among other pharmacists who are also getting very resigned. Would it not be possible for him to give us more details about his small town and his type of business so that we ourselves can assess the possibilities of increasing our own turnover by resigning from the N.H.S.

"One of the Subsidisers"

A Sympathiser

SIR,-I sympathise with Birmingham Chemist and his economics, but I must say I sympathise also with the patient whose doctor orders 60 oz. of a mixture of that kind. An aqueous solution like it would not keep well anyway, but in this case it might be of indeterminate strength, since phenobarb sodium slowly decomposes in aqueous solution giving off carbon dioxide and deposit-ing phenyl ethyl acetyl urea. Tablets would be cheaper and more effective. SECUNDUM ARTEM

Pharmacy's Dunkirk?

SIR,—The time has come for us to regard the imposition of the 2s. prescription charge as our pharmaceutical Dunkirk. Older readers will remember how the late Mr. Neville Chamberlain was shortly afterwards asked (emphatically) to go for the country's sake. I implore a certain person to do the same (I wrote to him privately in similar terms) for the sake of the pharmaceutical profession. The Council too wants to shake its feathers, and stop living in cloud-cuckoo land.

ALEX G. MURDOCH, Mintlaw, Aberdeens

Living in the Past?

SIR.—How true are the comments of Mr. Norman R. Hazzlewood (C. & D., March 25, p. 300). The Society has always lived in the past, and that goes for all too many members in retail. Your series "Pharmacies of Britain" may be of intense interest to ye olde apothecary, but can you imagine one of the new science graduates or B.Pharm.'s deciding to spend his life in such an establishment, with its "original shop front and fittings as installed in 1789," etc., etc. Recently the Minister of Health announced his intention to increase National Health Service prescriptions to 2s. per item, a measure that might easily have meant a reduction of 25 per cent. in dispensional production of 25 per cent. ing. Did our secretary M.P. instantly raise a powerful protest? No! He wrote a letter to the Society's journal on Anglo-French relations! Anglo-French relations my foot! Doctor-pharmacist relations are getting a bit strained in this part of the country. I just had a request for a refill of guttae zinci sulph.

— with the comment "the doctor said it would not cost anything like 2s."

Free advice, cheap dispensing! When you can said the win cat any factor of the win cat any factor of the win cat any factor. do WE get our £300 per year increase? C. H. PATRICK,

Twyford, Berks



For Retailer, Wholesaler and Manufacturer
ESTABLISHED 1859

Published weekly at 28 Essex Street, Strand, London, W.C.2

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

TELEPHONE CENTRAL 6565

Proprietaries on Prescription

To issue a statement in draft form is to invite criticism, and the Council of the Pharmaceutical Society no doubt wishes to stimulate comment at Branch meetings on its most recent draft—that on the dispensing of proprietaries (see p. 331).

The Council has reviewed the situation that has led to the present differences of practice by pharmacists in dispensing proprietary medicines. It might, we think, have said more about the need for a greater sense of awareness by manufacturers of the pharmacists' difficulties. Unless packs are adopted that are designed to be bulk packs from which dispensing may be carried out, or unit packs in a form that can be readily prepared for the patient, then, whatever code is adopted, differences in techniques will be noticed by the patient. Whilst there may be a need for defining standards of practice that will ensure uniformity throughout the profession, there is also a need for similar standards to be adopted by manufacturers, and the Council of the Society should state so quite plainly.

When considering the draft statement, pharmacists should bear in mind the possible future effect of its eventual approval by the Council. It would then become official advice to the membership and infringements might be brought to the notice of the Statutory Committee. Members must, therefore, be left in no doubt as to what is intended in the statement. Branch discussions provide opportunities for every member to insist that the adopted phraseology should be unequivocal.

Bearing such future possibilities in mind, we would have preferred to see more definitions in the draft. For examples, definitions are required for "skillets," which are proscribed, and "cartons," which are apparently approved. Possibly other types of container should be similarly defined.

No instruction is given as to what, if anything, pharmacists should do to ensure that a patient is fully acquainted with directions as to dosage, etc., when a doctor states: "As directed" on a prescription for a proprietary pack. We have noted that members of the public have been quick to criticise the pharmacist in such circumstances, when the real culprit, of course, is the doctor, who has not adequately briefed his patient.

It must not be overlooked that the public image of a pharmacist is largely built up on the way in which prescriptions are dispensed and presented over the counter, and therefore the highest standards of pharmacy should be pursued and achieved whenever possible. What is equally important is that the Ministry of

Health should be made aware that high standards often cost that little extra in time and materials and must be paid for. This is particularly pertinent to the paragraphs on containers.

An unaswered question is whether the code is intended to apply only to the dispensing practice of retail pharmacists? As written, the provisions could be interpreted as to affecting hospital pharmacy dispensing also. There is much to be said for the attitude that all pharmacists adopt the same techniques, and be subject to the same discipline, whatever the surroundings.

Sterile Arguments

That there should still be any doubt that a pharmacist is the most suitable person to control a hospital central sterile supply department must be a matter of astonishment to those who are familiar with pharmaceutical training and qualifications.

Yet it is apparent that there are some who do not subscribe to the policy of putting pharmacists in charge of such departments, and that is a situation all pharmacists should attempt to correct.

Recent correspondence in the Lancet has revealed suggestions that central sterile supply departments should be headed by persons ranging from surgeons to bacteriologists and nurses. Mr. W. T. Wing (chief pharmacist, Newcastle General Hospital) contributed to the correspondence on March 4, pointing out that, by reason of his academic and practical training, the pharmacist regards sterile supply as a natural function of pharmaceutical departments, of which the C.S.S.D. should be integrated as a subsection in the same way as production units for sterile medicaments and galenicals and supply sections for drugs, surgical dressings and in many cases surgical instruments already are. He points out that not to integrate the C.S.S.D's into the hospital pharmaceutical departments or to coordinate their activities with similar work already being undertaken is to waste existing or potential trained technologists available to hospitals - persons already equipped by their university or technical college training for that work.

In the March 18 issue, Mrs. F. Toole Stott, who has, we understand, nursing qualifications, suggests that the work of the C.S.S.D. is very much the concern of the nursing and medical staff, "because the procedures undertaken in the wards are initially laid down and carried out by them." It is her view that a trained nurse, "with her knowledge of the scores of nursing procedures (sterile and non-sterile) " is the obvious person to supervise and run such a department, "particularly as it is a full-time occupation." By the same analogy there are trained nurses who have a knowledge of the procedures adopted for administering therapeutic agents (tablets, injections or ointments), yet who would not be allowed, and we hope would not claim to be able, to cope with the problems of the pharmacy. Mrs. Stott writes that "the impersonal approach is all very well when dealing with the manufacture of drugs, but when dealing with ward-sisters and medical staff it is essential that the person in charge knows something of their problems and difficulties.'

When dealing with sterile procedures it is, we should have thought, essential to deal with bacteria, etc., in an entirely impersonal manner. The question of personalities does not arise. What matters is efficiency and technical training.

Overseas Trade in February

AFTER exceeding £4 millions in value in each of the three preceding months, exports of drugs, medicines and medicinal preparations fell to £3,926,360 during February. Nevertheless that total was some £200,000 more than in February 1960.

The destination pattern was unchanged from previous months with Australia as the principal market followed by Nigeria, but shipments to the United States improved considerably to make her the third largest customer while the Irish Republic which took prepared medicines to the value of £216,822 was fourth.

The present political unrest in East and Central Africa may account for the present downturn in exports to Rhodesia and Nyasaland and Kenya.

Penicillin exports proved to be the highest for thirteen months but the values of the remaining items for which statistics are available (see table) were little changed from recent levels.

Imports of prepared medicines dropped by 27 per cent. to £435,205 from the high peak reached in January. United Kingdom exports as a whole during February were valued at £297·1 millions, imports at £353·1 millions and re-exports at £11·2 millions.

EXPO	RTS				VALUE
Drugs, medicines, m	edicir	al pi	epara	tions	£
(total)					3,926,360
Vitamins					215,904
Penicillin salts					99,923
Penicillin injections					59,205
Penicillin tablets, oin	tment:	s, etc.			78,938
Antibiotics other that	n pen	icillin			559,216
Alkaloids					110,575
Aspirin					87,627
Antihistamines					61,601
Antipaludics		• • •			166,227
Barbiturates					49,295
Anæsthetics, excluding	ng cl	nlorofo	rm,	ether	.,,.,.
and ethyl chloride					99,216
Ointments and linim			•••		126,151
Insulin					18,471
Hormone and gland		rations			118,807
Sulphonamides					90,658
Proprietary medicines					1,108,045
Other medicines, und					838,760
Glycerin			•••		28,534
Acetone					55,569
Citric acid			• • • •		63,558
Phenol					169,360
Perfumery and toilet pr		_			109,500
Lipstick, face powder					280,532
Dentifrices					185,782
Toilet soaps					278,142
Synthetic detergents					519,855
IMPO	RTS				VALUE
					£
Vitamins					36,506
Antibiotics					129,215
Alkaloids					86,975
Proprietary medicines					75,610
Unclassified medicines					206,899
Borax					120,720
Iodine					102,828
N.C. (1. 1				1	22,782
Menthol Essential oils	• • •	• • •	* * *	• • •	22,102
TO .					14.702
		• • •			14,793
Citronella			• • •		46,947
Clove	• • •				8,244
Geranium			• • •	• • •	91,849
Lavender		***		• • •	19,912
Lemon				• • •	130,447
Orange				• • •	17,591
Peppermint					94,517
Unclassified					271,204

NEW BOOKS

Plant Viruses

& Co., Ltd., 36 Essex Street, Strand, London, W.C.2. $6\frac{1}{4}$ x $4\frac{1}{4}$ in. Pp. 209. 16s. 6d.

This pocket-sized book is directed to the student who is taking up the subject of plant viruses for the first time. Now in its third edition, the book deals in its first part briefly with the virus in the plant, the diseases caused and their physiology; movement in the plant; and methods of dissemination, etc. The various techniques for the practical study of plant viruses are discussed in the second part of the book. Each chapter concludes with a liberal number of references so that the student can delve further into any particular problem in which he is interested.

Outer Space Photography for the Amateur

HENRY E. PAUL, PH.D. Amphoto, 33 West 60th Street, New York, 23, N.Y., U.S.A. 8½ x 5 in. Pp. 124. \$2.50. Subtitled "Shooting planets, stars, satellites with your camera," this fascinating book is written by an executive of a pharmaceutical company, who for twenty years has been a pioneer though an amateur one in astronomical photography and telescope making. Dr. Paul offers instructions for assembling the necessary equipment (often simple in design) for recording objects of outer space, including the most recent intruders—man-made satellites. He gives adequate proof that "it can be done" in well over 100 illustrations, all of which have been contributed by amateur enthusiasts on both sides of the Atlantic.

Essentials of Pharmacology

F. K. OLDHAM, F. E. KELSEY and E. M. K. GEILING. *Pitman Medical Publishing Co., Ltd.* (J. B. Lippincott Co., Philadelphia, U.S.A.), 39 Parker Street, Løndon, W.C.2. $9\frac{1}{4} \times 6\frac{1}{4}$ in. Pp. xiv + 418. 62s. (Fourth edition, January 1961.)

DIRECTED at the United States medical student, this book is an introduction to the pharmacology of drugs in common use in that country. It opens with historical notes and continues with an outline of the general principles of drug action and metabolism. Comprehensive treatment of the subject is not to be expected from a book of this size, but established remedies are dealt with in detail and brief mention is made of such recently introduced therapeutic agents as demethylchlortetracycline and sulphamethoxy-pyridine. Drugs are classified, as is customary, according to their therapeutic effects. Recent developments in psychopharmacology have prompted the inclusion of a chapter entitled "Hallucinogens and tranquillisers" and addition of a section dealing with monoamine oxidase inhibitors to the chapter on "Central Nervous System Stimulants." Each chapter ends with a short bibliography.

Test and Improve your Scientific Word Power

MERVYN J. HUSTON, Ph.D. Canadian Pharmaceutical Journal, 221 Victoria Street, Toronto, 1, Ontario, Canada. $8 \times 5\frac{1}{2}$ in. Pp. 58. \$1.75.

THIRTY-FIVE tests that appeared originally in the Canadian Pharmaceutical Journal, and subsequently in other technical publications, have been collated into a single work designed to broaden the scientific vocabulary of students and practitioners in the pharmaceutical, medical, dental and nursing professions. Each test comprises up to twenty "problem" words, many similar in spelling but quite different in meaning, and for each word four definitions are offered. To ensure the reader's accuracy in finding the correct one, the final seventeen pages are "solution" pages. Dr. Huston, with humorous touches, has made his dictionary easy to read, though whether such alternative definitions as "a vexing customer" for counterirritant or "ridiculous feet" for pediculous actually aid the reader in remembering their correct meanings, is a matter of opinion. The objective of the work—to reduce the chances of elementary mistakes being made by persons who ought to know better—is summed up by a paragraph borrowed from Confucious: "For one word a man is often deemed to be wise, and for one word he is often deemed to be foolish. We should be careful indeed what we say."

Pharmaceutical Society of Ireland

MONTHLY MEETING OF COUNCIL

(Concluded from The CHEMIST AND DRUGGIST, March 25, 1961)

IT was decided to hold a special meeting of the Council at 7.45 p.m. on March 27 to discuss the Pharmacy Bill. The meeting would also further discuss the sale of tranquillisers.

THE REGISTRAR reported that the Commission on Higher Education appointed in 1960 to inquire into University and other forms of higher education had expressed a desire to visit the College of Pharmacy, and arrangements had been made for them to do so on April 8. Arising out of the Education Committee's report, it was stated that considerable progress had been made in the drafting of the new regulations for the proposed degree course in pharmacy.

The Assistants' Course

In reply to MISS L. CUNNIFFE, who asked if any changes had been contemplated in the Assistants' course, THE REGISTRAR said it had been suggested that the practical period of training should be reduced from three to two years, and that the academic course should be increased to one year. MISS CUNNIFFE suggested that the registration requirement should be amended by requiring prospective students to have passed in Irish, English, a modern language, mathematics, and a fifth subject in the matriculation or leaving-eertificate examination. She contended that many girls' schools no longer taught Latin, whereas they taught French, German, Spanish and other modern languages. That debarred many intelligent, well-educated girls, who would otherwise adopt pharmacy as a career.

MR. KENNELLY supported Miss Cunniffe's suggestion, and said that, while the suggestion to reduce the practical course and extend the academic one would ease a lot of strain from the College point of view, they should be careful lest it might close the door on the number of assistants coming into pharmacy. MISS CUNNIFFE said that what really prevented girls entering pharmacy was the Latin, and MR. KENNELLY said that, while he had a soft spot for Latin, they had to be practical. The present tendency of the British Pharmacopæia was away from Latin. Doctors were recommended to write prescriptions in English.

MR. O'NEILL said that the modern youth who had the University standard of education was not going to be satisfied with the future offered him as an assistant in pharmacy. Agreeing, MR. SEMPLE said that, so long as there were counter hands, there would be no need for assistants. The majority of pharmacies were filled with counter hands, and that situation would continue until it was made illegal to have counter hands. The question was one of economics, and until they improved the standard of pharmacy and offered better salaries they were going to get fewer to enter the profession.

It was decided that the Education Cemmittee should examine the question of making Latin an optional, rather than a compulsory subject. Any such change, it was pointed out, would not affect the requirements for the chemists' course, since the 1875 Pharmacy Act specified Latin as a subject.

MR. O'DONNELL, who had been appointed a member of the consultative committee under the Animals Remedies' Act, reported that at the next meeting of the advisory committee it was intended to discuss the distribution of strain 19. He suggested that any pharmacist who had experience of the distribution of that product, and who had any suggestions to offer, should communicate with him or the registrar immediately, as the matter was urgent.

Permission was given to the Photographic Dealers' Association to conduct an examination in the College on March 22, and permission was also granted to the Association of Ophthalmic Opticians of Ireland to have the use of a

College laboratory for the holding of its post-graduate course in contact-lens fitting, April 4-7.

Registration and Membership

A marriage certificate having been submitted, the name of Mrs. Ruth Jordan (née O'Malley), M.P.S.I., Bridge Street, Boyle, co. Roscommon, was changed in the register. Changes of address were notified by Bernard McGirr, Ph.C., to Carnew, co. Wicklow, and of Hugh McElhinney, D.C.D., to 122 North Circular Road, Dublin. L.A.H. certificates having been submitted, Dr. Mary G. McAvinchy, Monaghan: Dr. Saad M. A. Messich, Egypt, and Dr. Michael J. O'Connell, Moynalty, co. Meath, were registered as pharmaceutical chemists.

THE REGISTRAR reported on the deaths of James Frederick O'Hara, M.P.S.I., and Francis Dwane, D.C.D.

The licence certificates of the following were signed and sealed: William Biney Akakpo, Mary Curley, Kathleen Flynn, Lim Kee Sin and Margaret McInerney, The following were elected members: Miss Una Mollooly, Messrs. John McIvor, Brendan C. Kieran, Matthew Murphy, Patrick Murphy, Thos. Wickham, John Rafferty and P. J. Mulrooney (Associate).

At a subsequent meeting of the Benevolent Fund Committee, grants totalling £109 were passed for payment. THE REGISTRAR reported that he had received a cheque for £10 per E. J. Connolly, M.P.S.I., from the North Munster Medical Golfing Society, Thurles Golf Club, and the thanks of the Council were extended to the Society.

The following members attended: Messrs. G. C. O'Neill, H. P. Corrigan, M. Costello, K. Banks, M. L. Cashman, Miss L. Cunniffe, Messrs. J. Gleeson, D. J. Kennelly, V. G. McElwee, T. R. Miller, T. B. O'Sullivan, M. Power, R. J. Power, R. J. Semple.

ECHOES OF THE PAST

COLD THINGS

From The History of Life and Death by Francis Bacon, Lord Verulam, Viscount St. Albans. London, 1676

NITRE is a kind of cool spice: this is apparent to the Sense it self, for it bites the Tongue and Palate with *cold*, as Spices do with *heat*, and it is the only thing, as far as we know that both this property.

know, that hath this property.

Almost all cold things (which are cold properly, and not by accident, as Opium is) are poor and jejune of spirit: Contrarily, things full of Spirit are almost all hot, only Nitre is found amongst Vegetables, which aboundeth with Spirit, and yet is cold. As for Camphire, which is full of Spirit, and yet performeth the actions of cold, it cooleth by accident only; as namely, for that by the thinness thereof, without Acrimony, it helpeth perspiration in inflamations.

In congealing and freezing of Liquors (which is lately grown into use) by laying Snow and Ice on the outside of the Vessel, Nitre is also added, and no doubt it exciteth and fortifieth the Congelation. It is true, that they use also for this work ordinary Bay-salt, which doth rather give activity to the coldness of the Snow, than cool by it self: But, as I have heard, in the hotter Regions, where Snow falls not, the congealing is wrought by Nitre alone; but this I cannot certainly affirm.

It is affirmed that Gun-powder, which consisteth principally of Nitre, being taken in drink, doth conduce to valour; and that it is used oftentimes by Mariners and Souldiers before they begin their Battles, as the Turks do Onium

Nitre is given with good success in burning Agues, and Pestilential Fevers, to mitigate and bridle their pernicious heats.

It is manifest, that *Nitre* in *Gun-powder* doth mightily abhor the Flame, from whence is caused that horrible Crack, and the puffing.

COUNCIL'S VIEWS ON RESOLUTIONS

(Concluded from The CHEMIST AND DRUGGIST, March 25, p. 293)

Dosage on Labels

That it is the opinion of this meeting that all manufacturers and suppliers of drugs should print metric and imperial doses on their labels together with the Poisons Schedule where relevant and that the official symbol G for gramme be universally adopted.

The points raised were in accordance with the recommendations the Association of British Pharmaceutical Industry had made to its members, with the exception that the inclusion of an Imperial dose would not be appropriate for a preparation which was normally prescribed in the metric system.

Purchase Tax on Medicines

That it is the opinion of this meeting that the Society should continue to press for complete abolition of purchase tax on medicines which are not advertised to the public.

This resolution had been noted.

A Publicity Campaign

That it is the opinion of this meeting that the Council of the Society should consider the appointment of public relations consultants to work with the Publicity Committee, and that a publicity campaign should be started as soon as possible (a) to influence public opinion concerning the place of the pharmacist in the National Health Service, and (b) to educate the public to regard the pharmacist as the only safe and qualified source of all their medicinal requirements.

The question of engaging the services of professional advisers on public relations was one of the aspects of the work of the Publicity Committee, Before the Committee could be in a position to make a recommendation on the matter much preparatory work had to be done and that was proceeding as rapidly as circumstances permitted.

Post-graduate Training

That it is the opinion of this meeting that in order to perpetuate the best of traditional pharmacy, "Hints to Apprentice Masters" should be brought up to date in accordance with the present regulations governing practical training, and be made available without delay.

The Council reiterated the view expressed on their behalf at the Branch Representatives' meeting that until experience had been gained of the new Examination conditions it would be difficult to frame the guidance asked for. The Council appreciated the importance of assisting pharmacist employers to adjust themselves to the new eonditions and to the acceptance of post-graduate students as an integral part of pharmaceutical practice.

Section K

That it is the opinion of this meeting that the promise made at the Society's annual meeting in 1958, that details of Section K in the prequalification syllabus would be published in the near future, should be kept without delay, and that the considered opinions of Branches on these details be given every consideration by the Council.

This information has been published. (See C. & D., June 18, 1960, p. 728.)

Associateship

That it is the opinion of this meeting that the Pharmaceutical Society of Great Britain should initiate an Associateship of the Society to which graduates in pharmacy, who are not members of the Society would be admitted. Associateship would not be a statutory qualification.

There were two classes of persons affected by this proposal: (a) graduates

undergoing post-graduate practical training, (b) graduates who did not need to become registered pharmaceutical chemists. As regards (a) the Council did not consider it would be desirable to give a distinctive status to such graduates, Since they were technically students and as such were already provided for under the present by-laws, under the new conditions it would not be necessary for graduates to take the Society's examination in forensic pharmacy and it would be possible for them to undergo the required practical training in any branch of pharmacy. In those circumstances the case for any special form of association of graduates with the Society would no longer exist.

Branch Membership for the Retired

That it is the opinion of this meeting that steps should be taken to permit Branch membership to all retired pharmacists irrespective of whether their names are retained in the Register of Pharmaceutical Chemists,

The Council agreed that it should be permissible for members of the Society who ceased to be such on retirement from active work to retain Branch membership. A special category of Branch membership would be needed to provide for them and the Council would submit proposals for modifying the Branch rules.

Sales of Part II Poisons

That it is the opinion of this meeting that the regulations governing the sale of Part II poisons should be amended, either to restrict the sale entirely to pharmacists or to put them in a similar position to listed sellers by permitting unqualified persons appointed by pharmacists as deputies to effect the sale of such poisons without supervision.

The first point to note was that the right of the listed seller to sell First Schedule poisons at all was limited

as to (1) the range of poisons he could supply; (2) the form in which they were supplied; (3) the purpose for which they were supplied; and (4) the persons to whom they were supplied.
The authorised seller was not so limited. It was clear that a considerable variety of material for which there was a large and growing demand was available within this limitation for supply by the listed seller and consequently too much eould not be made of the restriction under which the listed seller operated as contrasted with the freedom of an unauthorised seller. The Council agreed that it would be preferable if preparations affected were supplied only by authorised sellers of poisons but the supply of poisons of that kind by unqualified people had become so well established that no useful purpose would be served by trying to secure its discontinuance. The question was therefore whether pharmacists should be permitted to appoint deputies. The Council were not in favour of that. It would give the impression that the deputy was as well fitted as the pharmacist to handle poisons. The granting of equality to the pharmacist and non-pharmacist would create confusion as to their respective rôles and tend to undermine the authority and status of the pharmacist both in the internal management of the business and in the eyes of the public. A further point was how to ensure that sales of First Schedule Part II poisons which could not be effected by a deputy were effected or supervised by a pharmacist. That would involve making a highly artificial distinction between transactions that would be difficult to realise in practice. Also the retention of the duty of the pharmacist to make or supervise sales of First Schedule Part II poisons was eonsistent with his duties under the Pharmacy Acts and the appointment of a deputy would not relieve him of work to any great extent.

LEICESTER STUDENTS' REUNION "Softening-up" process for an examiner

STUDENTS of the school of pharmacy, Leicester College of Technology and Commerce, showed customary liveliness and spirit at their annual reunion on March 15, as well as a prudent diplomacy in inviting as their principal guest one of the examiners of the Pharmaceutical Society: Professor Edward Shotton, who recognised in his remarks that many of his hearers would find less pleasant his usual visits to the city. Examiners, he said, were sadly misunderstood although, as Pepys had written, "it is strange to see how a good dinner and feasting reconciles everybody." Professor Shotton confessed that sliding seats at the laboratory benches at his own College were a crib from those at Leicester.

Maiden Speech

The toast "The Guests" is by tradition of the Department proposed from a standing start, and this year it was Mr. "Spider" Rye (chairman of the pharmacy students' association), who had to get up on the chair. His confident oratory appeared, however, unaffected by the altitude as he paid

tribute to Mr. Bream (chairman of the school's pharmacy advisory committee), Councillor Mrs. Jackson (a member of the board of governors), Mr. Doyle (H.M. inspector), Mr. Lauder (chairman of the local branch) and others. Proposing "The Old Lags," Mr. W. J. I. Lebeter, "probably the oldest lag present," recalled war-time days when students were better taught than and suggested that present stufed," dents led a cloistered existence, shielded from the horrors of prescription levies and tax demands. Mr. D. E. Brookes (social secretary) introduced a note of originality into the sometimes humdrum sequence of wine-takings. "All who have travelled over twenty miles to attend" was one group so toasted, and another, two pairs of Leicester Rag Week hitchhikers, the Misses Archer and Webster, who covered 671 miles in twenty-four hours, and the Misses Adams and Prior (450 in twelve). An-other quip was "Mr. Harold (I-onlyuse-sheet-gelatin-in-my-glycerin-supposi-tories) Douglas would like to take wine with Professor (But-we-only-use-pow-dered-gelatin-at-the-Square) Shotton."

Dispensing of Proprietaries

COUNCIL OF THE PHARMACEUTICAL SOCIETY ISSUES A DRAFT CODE

A DRAFT Statement on the Dispensing of Proprietaries has been published by the Council of the Pharmaceutical Society and sent to the Branches for any comments they may wish to make for the consideration of the Council prior to deciding upon the final form and content of the statement. The draft statement was submitted for comment to the Association of British Pharmaceutical Industry, the British Medical Association and the National Pharmaceutical Union before issue.

Text of the Statement

1, Although proprietary medicines have been prescribed for many years no special problems arose in the past in connection with their dispensing. Nowadays however, the number, proportion and variety of forms of proprictary medicines has become so great, and the circumstances in which they are prescribed have so changed that the procedures to be adopted in dispensing them call for special consideration.

2. In former times when proprietaries were

comparatively rarely prescribed it was customary to dispense them in a manner similar to that involved their transference to ordinary containers and their labelling as for other dispensed medi-cines, a course which could be followed partly because they were similar in nature to extemporaneously-prepared medicines and partly because the policy of manufacturers did not expect their identity as proprietaries to be kept in view at the dispensing stage. There was an exception to this procedure, namely, when the prescription was marked "original pack" the product as received from the manufacturer was supplied with the addition of a dispensing label.

3. The importance of the proprietary medicine to the economics of the pharmaceutical in-dustry means that the manufacturer wishes to keep his particular product as prominently as possible before the eyes of doctor and patient, and consequently presents it in a form which he hopes will do so. In addition to the manufacturer encouraging the use of the proprietary name on prescription by giving greater prominence to it in various ways than to the common or approved name, distinctive colours of liquids, distinctive colours and markings of tablets and capsules, distinctive forms of container, and distinctive labels and outer containers or coverings, are all employed by him to this end. The proprietary name and the appearance of the medicine become by these methods common knowledge.

The traditional procedures of prescribing and dispensing prescriptions are becoming progressively less appropriate to be employed in these circumstances and their value in preserving, if desired, the anonymity of dispensed medicines

proportionately declines.

5. These reasons combined with the encouragement by doctors and health authorities of a more informed attitude to health on the part of the public has led to a state of affairs where the doctor is much less concerned than formerly to keep from the patient the knowledge of the kind of medicine he is prescribing which in turn has its effect on the way he expects the medicine to be dispensed.

The distinctive form of presentation by the manufacturer is not necessarily solely due to his desire to emphasise the proprietary nature of his product. The character of the product may be such that in order that it should be in the most suitable condition for use by the patient a dosage-sized and/or particular style of container which is undisturbed until opened by the patient is advisable. Further, the development of new types of medicament, new materials for use as containers and surface finishes, new methods of application and new packaging methods predetermine the form of the dispensed product to an extent which did not happen under earlier conditions when proprietaries and non-proprie-

taries were virtually interchangeable so far as the process of dispensing was concerned.

7. While some manufacturers have clearly had the problem of the dispensing pharmacist in mind in designing their containers and labelling so that their products can be dispensed in an appropriate manner, others do not appear to have taken this consideration into account. In consequence it is impossible to dispense many pre-parations in a form which satisfies traditional standards of elegance. Although admittedly there may be difficulties in some cases in providing acceptable forms of container for dispensing purposes manufacturers should be urged to bear in mind the need to do so if at all possible.

8. As a result of these factors pharmacists have been presented with a situation in which although traditional methods of dispensing have in many cases not been applicable there been no clear general understanding as to what other methods should be used. This has led to differences of practice which in turn have led persons concerned outside pharmacy to call into question the efficiency with which prescriptions are dispensed and is also invidious as between pharmacists themselves. It has moreover provided a favourable ground for the development of a careless attitude resulting sometimes in medicines being handed out as received from the manufacturer without any labelling or wrapping by

the pharmacist.

9. There is then a need for defining standards of practice which will ensure reasonable uni-formity throughout the profession. In considering what procedures should be adopted pensing proprietary medicines it should be made clear that such procedures can only be for general guidance. They cannot provide the answer to every situation in which the pharmacist finds himself in dealing with proprietaries. Apart from unusual situations which do not lend themselves to general rules and from the emergence of new problems for which provision cannot be made in advance, there may be circumstances in particular established cases which make inappropriate the general rules normally applicable. In other words, a rule should be observed unless there is a good reason to the contrary, that is, a reason which the profession would support.

10. The following proposals for dispensing proprietary medicines are put forward in the light of the above considerations. It will be noted that certain of the proposals are applicable to the dispensing of extemporaneously-prepared medicines. To that extent the proposals should

be regarded as relating to dispensing in general.

11. Definitions: "Maker's container" means a container and contents as received from the manufacturer with any outer container or cover-

ing, literature, if any, and labels removed.
"Dispensing label" means a label of the type traditionally used for dispensing, bearing the name and address of the supplier, the nature of the medicine and any other prescribed directions, the name of the patient and the date of dispensing.

GENERAL

Wrapping: All medicines should be wrapped in the traditional manner or otherwise supplied in a form of covering suitable for delivery.

LABELLING: All medicines should carry in an appropriate place a dispensing label. ORIGINAL PACKS: A prescription for an "original pack" should be dispensed by supplying the product as received from the manufacturer with the addition of a dispensing label. Any literature supplied with the pack should be removed unless needed for the proper use of the preparation by the patient. It should be understood that if there are special circumstances an "original pack" may appropriately be supplied even if it is not prescribed.

PAPER BAGS AND SKILLETS: These should not be used.

CONTAINERS: Unless reference is made to "maker's container" it is implied that dispensing should be from bulk stock and ordinary dispensing containers should be used. Care should be taken to select a container which as far as practicable carries out the intention of the maker and regard should therefore be had to the type of container used for the original

MIXTURES AND OTHER FLUID PREPARA-TIONS FOR INTERNAL USE: Containers should be plain or suitably graduated glass bottles closed by corks or non-metallic caps. Oral antibiotics and preparations in special dispensing packs should be supplied in makers' containers. If an oral antibiotic bears an instruction showing that the medicine should not be used after a certain date this fact should be stated on the label.

TABLETS (LOOSE), CAPSULES, PILLS: Containers should be of glass, plastic or suitable metal or may be flanged boxes or card drums, when a less permanent type of container may properly be used. If two or more prescriptions for these preparations for the same person are dispensed at the same time care should be taken in dispensing them to avoid the preparations being confused in use.

TABLETS (FOIL OR STRIP PACKING): Containers should be boxes, tins, or cartons. Dispensing envelopes may be used for small quantities.

Lozenges: Makers' containers should be supplied. If this is not practicable the containers used should be airtight.

CACHETS: Containers should be boxes, tins or cartons.

EYE DROPS: Makers' containers should be supplied or if the pack is so designed that a carton or other outer covering virtually forms an integral part of it the container may be supplied in such outer covering and the label be placed either on the container or on the outer covering whichever is the more suitable place. Drop bottles may also be used.

NASAL AND EAR DROPS: Makers' containers should be supplied. If this is not practicable other appropriate containers should be used.

NEBULISERS: Makers' containers should be supplied.

POWDERS (WRAPPED): Slide boxes or tins should be used.

Powders (BULK): Makers' containers should be used. If this is not practicable suitable rigid and powder-tight containers should be used.

OINTMENTS. CREAMS. APPLICATIONS: Makers' containers should be supplied. If this is not practicable, suitable non-

absorbent containers should be used.

PAINTS: Makers' containers should be supplied. If this is not practicable, other suitable bottles should be used.

WILLS

Mr. L. F. AITKEN, 29 Kaimes Road, Corstorphine, Edinburgh (a former director of Ethicon, Ltd.), left personal estate in England and Scotland valued at £4.644.

MR. A. E. BEESLEY, F.P.S., 22 King Edward Avenue, Dartford, Kent, left £7,683 (£7,505 net). MR. HORACE WRIGHT, M.P.S., 17 Chestnut Avenue, Canons Park, Edgware, Middlesex, left £23,029 (£22,815 net).

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 338.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

CHOLOXIN tablets

Manufacturer: Baxter Laboratories, Ltd., London Road Trading Estate, High Wycombe, Bucks.

DESCRIPTION: White tablets, each containing 2 mgm. of sodium d-thyroxine. A cholesteropenic agent.

Indications: Management of hypercholesterolæmia associated with arteriosclerosis, atherosclerosis, cerebrovascular disease, diabetes mellitus; essential familiar hypercholesterolæmia, hypothyroidism, idiopathic hypercholesterolæmia, xanthomatosis.

CONTRAINDICATIONS: Acute myocardial infarction.

Dosage: Adults, one tablet daily for 10-14 days, increasing then to two tablets (4 mgm.) daily.

PRECAUTIONS: Patients with a history of angina may require temporary reduction of dosage to avoid recurrence of attacks.

How Supplied: In container of fifty. Supply Restrictions: P.I, S.4B. First Issued: March 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

NAVIDREX tablets

Manufacturer: CIBA Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: White scored tablets (embossed CIBA on one face and AO on the other), each containing 0.5 mgm. of 6-chloro-3-cyclopentylmethyl-3,4-dihydro-7-sulphamoyl-2H-1,2,4-benzothiadiazine 1,I-dioxide. Diuretic

Indications: Acute and chronic heart failure; acute pulmonary heart disease; toxæmia and ædema of pregnancy; renal ædema; chronic glomerular nephritis; nephrotic syndrome; hepatic ædema and ascites due to cirrhosis; obesity with fluid retention; ædema induced by corticosteroids; premenstrual tension caused by fluid retention; hypertension.

Dosage: 0.25-1 mgm, daily.

How Supplied: In containers of twenty-five, 100 and 500.

First Issued: March 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

NUMORPHAN injection

Manufacturer: The British Drug Houses, Ltd., Graham Street, London, N.1.

DESCRIPTION: Ampoules, each containing 1.5 mgm. of oxymorphone in 1 mil. Analgesic.

Indications: As an adjunct to anæsthesia; post-operative and difficult analgesia; pre-anæsthetic medication.

Contraindications: In very young children; hepatic dysfunction or disease; known hypersensitivity to opiates.

Dosage: Normally, 1.5 mgm., intravenously or intramuscularly. Up to 5 mgm. may be given as a single dose.

How Supplied: In boxes of six and twenty-five ampoules.

SUPPLY RESTRICTIONS: P.I, S.1, S.4A, D.D.A.

FIRST ISSUED: March 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

PRIMOGYN DEPOT 100 mgm.

Manufacturer: Schering A.G., Berlin, Germany. Distributor: Pharmethicals (London), Ltd., Victoria Way, Burgess Hill, Sussex.

DESCRIPTION: Ampoules, each containing 100 mgm. of œstradiol undecylenate in 1 mil of oily solution.

Indications: Long-term treatment of carcinoma of the prostate.

Dosage: 100 mgm. intramuscularly, every three weeks.

How Supplied: In boxes of three and twenty ampoules.

SUPPLY RESTRICTIONS: P.I, S.4B.

FIRST ISSUED: March 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

BETNELAN tablets

Manufacturer: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: White scored tablets, each containing 0.5 mgm. of betamethasone. A synthetic corticosteroid.

Indications: Short-term therapy, in acute asthma, hay fever, inflammatory skin diseases, allergic conditions. Long-term therapy, in rheumatoid arthritis, congestive heart failure, nephrotic syndrome, ulcerative colitis, collagen diseases.

Dosage: See manufacturer's literature.

How Supplied: In bottles of thirty, 100, 500.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: February 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

MADRIBON syrup

Manufacturer: Roche Products, Ltd., 15 Manchester Square, London, W.I.

Description: Syrup containing 250 mgm. of sulphadimethoxine per teaspoonful (5 mils). A long-acting sulphonamide.

Indications: Infections due to sulphonamide-sensitive organisms.

Dosage: (Initially) Adults, 8 teaspoonfuls; Children (8–I4 yrs.), 6 teaspoonfuls; (6–8 yrs.), 4 teaspoonfuls; (4–6 yrs.), 2 teaspoonfuls. Halved for maintenance dose, every 24 hours.

How Supplied: In bottles of 50 and 500 mils.

SUPPLY RESTRICTIONS: P.I, S.4B. First Issued: February 1951.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

ORASTREP suspension and tablets

Manufacturer: The Distillers Co. (Biochemicals), Ltd., Broadway House, The Broadway, London, S.W.19.

Description: Pleasantly flavoured suspension containing 0.5 gm. of streptomycin (as sulphate), 0.5 gm. of sulphadimidine and 1.5 gm. of light kaolin per 5 mils. White scored tablets, each containing 0.25 gm. of streptomycin (as sulphate) and 0.25 gm. of sulphadimidine.

INDICATIONS: Therapeutically and prophylactically in gastrointestinal infections.

Dosage: Suspension: Adults, 10 mils initially then 5 mils four times a day. Tablets: Adults, four initially then two four times a day.

Treatment should continue at least 24 hours after diarrhoa has ceased. Children, half the adult dose.

How Supplied: Suspension in bottle of 50 mils. Tablets in bottles of twenty-five, 100 and 250.

SUPPLY RESTRICTIONS: P.I, S.4B, Therapeutic Substances Act. First Issued: March 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

RISUNAL ointment

MANUFACTURER: Geistlich Sons, Ltd., Chester.

DESCRIPTION: Ointment containing 5 per cent. of β-diethylaminobutyric acid anilide hydrochloride ("amplicaine"), 3 per cent. of isopropylphenazone, 1.5 per cent. of ethyl nicotinate and 1.5 per cent. of benzyl nicotinate.

INDICATIONS: Fibrositis; rheumatic, neuralgic and spastic conditions including muscular and articular rheumatism, lumbago, inflammatory arthroses, neuralgia, myalgia and sciatica.

METHOD OF USE: Massaged into the affected area once or twice a day, each or every other day.

Precautions: Should not come in contact with mucous membranes.

How Supplied: In tube of 20 gm.

FIRST ISSUED: February 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

MAJEPTIL tablets and injection

Manufacturer: May & Baker Ltd., Dagenham, Essex.

DISTRIBUTOR: Pharmaceutical Specialities (May & Baker),
Ltd., Dagenham, Essex.

DESCRIPTION: White uncoated tablets (engraved MAJEPTIL plus the strength), each containing 1, 5, 10 or 25 mgm. of thioproperazine methanesulphonate; Ampoules, each containing 7.5 mgm. in 1 mil. Neuroleptic.

INDICATIONS: Acute mania and other states of excitation; chronic and acute schizophrenia.

Dosage: See manufacturer's literature.

Precautions: Mental defectives may be hypersensitive. Antiemetic effect may suppress other symptoms.

SIDE-EFFECTS: May include sweating, seborrhœa, pallor or reddening of the face, transient urinary retention, headache.

How Supplied: Tablets in containers of fifty (1 and 5 mgm. only) and 250. Injection in box of ten ampoules.

SUPPLY RESTRICTIONS: P.I, S.4B. (10 and 25 mgm. tablets, and injection, available to hospitals only.)

First Issued: March 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

MILLOPHYLINE injection and tablets

DISTRIBUTOR: Dales Pharmaceuticals, Ltd., Power Road, London, W.4.

DESCRIPTION: Ampoules, each containing 0.7 gm. of diethylaminoethyltheophylline camphorsulphonate in 5 mils. Red sugar-coated tablets, each containing 0.1 gm. Cardiac and respiratory stimulant.

INDICATIONS: Angina; myocardial infarction; respiratory disorders, pulmonary congestion.

Dosage: Injection: 5-10 mils daily, intramuscularly; 2.5 mils diluted with water for injection, intravenously. Tablets: three to six daily in divided doses, after meals.

How Supplied: *Injection* in box of six ampoules. *Tablets* in containers of thirty, 100, 250 and 500.

First Issued: February 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

MODITEN elixir

Manufacturer: E. R. Squibb & Sons, Ltd., Edwards Lane, Speke, Liverpool, 24.

DESCRIPTION: Orange flavoured and coloured elixir containing 0.5 mgm. of fluphenazine dihydrochloride per mil.

INDICATIONS: Mild temporary behavioural disorders in children, and for the geriatric patients unable to swallow the tablets.

Contraindications: Severe depression.

Dosage: Pædiatric, 0.25-0.5 mgm. daily. May be increased by increments of 0.25 mgm. until symptoms are controlled. Doses larger than 1 mgm. daily should be given with caution.

How Supplied: In bottle of 60 mils, with calibrated dropper. Supply Restrictions: P.I. S.4B.

FIRST ISSUED: February 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

PORTYN KAPSEAL capsules

Manufacturer: Parke, Davis & Co., Staines Road, Hounslow, Middlesex.

DESCRIPTION: Capsules, each containing 10 mgm. of benzilonium bromide. Anticholinergic.

INDICATIONS: Management of peptic ulcer and functional gastrointestinal disease.

Dosage: One capsule three times a day; increased later if necessary.

SIDE-EFFECTS: In common with other anticholinergic drugs Portyn may produce dryness of the mouth, blurred vision, urinary retention, constipation, stomatitis, sleepiness and heartburn.

How Supplied: In bottles of thirty and 250.

FIRST ISSUED: February 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

CAMBISON ointment

MANUFACTURER: Hoechst Pharmaceuticals, Ltd., 11 Stoke Poges Lane, Slough, Bucks. DISTRIBUTOR: Horlicks, Ltd., Pharmaceutical division, Slough, Bucks.

DESCRIPTION: Ointment containing 0.25 or 0.5 per cent. of prednisolone, 0.16 per cent. of neomycin and 0.3 per cent. of NN'-di (4-amino-2-methylquinol-6-yl) urea hydrochloride.

Indications: Acute dermatitis or eczema, when infection is present or suspected.

METHOD OF USE: Apply up to three times a day.

How Supplied: In tubes of 5 and 20 gm.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

First Issued: April 1960.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

DUNCAINE ointment

Manufacturer: Duncan, Flockhart & Co., Ltd., 16 Wheatfield Road, Edinburgh, 11.

DESCRIPTION: Ointment containing 5 per cent, of lignocaine base in a water-miscible base.

INDICATIONS: Pruritus ani, pruritus vulvæ, anal fissure, painful nipples during lactation, herpes zoster, herpes labialis.

CONTRAINDICATIONS: Do not apply to raw bleeding areas.

METHOD OF USE: Applied to the affected area.

How Supplied: In tube of 15 gm. First Issued: January 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

VOSOL ear drops

Manufacturer: Denver Laboratories, Ltd., 12 Carlisle Road, London, N.W.9.

DESCRIPTION: Ear drops containing 3 per cent, of 1·2-propanediol diacetate, 2 per cent. of acetic acid and 0·02 per cent. of benzethonium chloride, in propylene glycol

INDICATIONS: External otitis, where there is an infective element.

METHOD OF USE: 5 drops instilled three or four times a day. How Supplied: In 15-mil dropper bottle.

FIRST ISSUED: January 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 1, 1961

ZYNOTRACIN ointment

Manufacturer: The Distillers Company (Biochemicals), Ltd., Broadway House, The Broadway, London, S.W.19.

Description: Ointment containing 4.5 mgm. of xanthocillin, 500 units of zinc bacitracin, and 10 mgm. of hydrocortisone per 1 gm., in a wool fat/paraffin base. Antibacterial and anti-inflammatory.

INDICATIONS: Commonly occurring bacterial infections of the skin.

METHOD OF USE: Applied twice a day to clean skin, and covered with a dressing.

How SUPPLIED: In tubes of 5 and 15 gm.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: February 1961.

AMENDMENTS TO RECENT ENTRIES

ASMAC TABLETS. Now supplied in bottles of fifty and 250.

ASMAVAL TABLETS. Now supplied in tube of twenty-five and bottles of 100 and 500.

DOLOXENE PULVULES, DOLOXENE COMPOUND PULVULES. Now exempt from D.D.A. regulations.

ILOSONE PULVULES, 125 and 250 mgm. Now supplied in containers of twelve (250 mgm. only), twenty-four (125 mgm. only), 100, 500, 1,000 and 5,000.

PERTIX "Hommel." Now supplied by Lloyds' Pharmaceuticals, Ltd., 11 Waterloo Place, London, S.W.1.

SALUPRES TABLETS. Now supplied in bottles of twenty-five, 100 and 500.

TENUATE TABLETS. Now supplied in bottles of thirty, 100 and 500.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

London, March 28: Trading in Crude Drugs continued at a low level during the week. The mild winter is held responsible for an accumulation of stocks of seasonal items in the hands of pharmaceutical manufacturers.

Thus there is little call for repeat orders for Balsams, Senega, Menthol. etc. A parcel of new crop Buchu was offering on the spot at 4s. 6d. per 1b. AGAR for shipment was three-halfpence per lb. lower, while Aleppy green CARDAMOMS were threepence per 1b. lower following an easing of shipment prices. Para Tonquin BEANS were being offered at 7s. per lb. against 7s. 3d. reeently. Among Aromatic SEEDS Moroccan Coriander continued its firmer tendency with business reported at 125s. per cwt. (against 120s.) duty paid, following news that no export licences would be granted because of poor crop prospects. Similar news was eirculated in respect of Indian DILL where the new crop was said to be small on account of weather eonditions. Moroccan Fenugreek prices were nominal. In Spices white Sarawak PEPPER lost a further twopence-halfpenny per lb., making the spot price 3s. $6\frac{1}{2}$ d. African GINGER was 2s. 6d. per cwt. lower for shipment, while Jamaican No. 3 was quoted at 202s. 6d. per cwt., c.i.f., for new crop.

For the first time in three years there is expected to be an end-of-season surplus of Pyrethrum flowers in Kenya brought about by the growers increasing pyrethrum acreage. Sales in the current financial year of the Kenya Pyrethrum Board (ending June 30) are expected to be 9,000 tons (against 6,500 tons in the previous year) while the excess stocks may be around 500 tons.

CASTOR OIL was dearer by £3 per

SOFT PARAFFINS are being increased in price on April 1 by about £6 per

Pharmaceutical Chemicals

Ammonium acetate. — 1-cwt, lots of B.P.C. 1949, 4s 5d. per lb.

AMMONIUM BICARBONATE.—B.P. powder, £50 5s. per ton; CARBONATE, £81 10s. for lump and £85 10s. for powder.

AMMONIUM CHLORIDE. — One-cwt. lots B.P. powder, 105s. per cwt.; technical, 55s.

ANEURINE HYDROCHLORIDE. — 1-kilo £9 5s.; 10-kilos, £8 17s. 6d. per kilo.

ASCORBIC ACID.—One-kilo, £3 12s.; 10 kilos, £3 10s. per kilo. Sodium ascorbate is offered at the same price.

BORAX.—B.P. grade, 1 ton and upwards: Granular, £56 10s.; crystals, £60; powder, £61; extra fine powder, £62 per ton, all in hessian sacks. Commercial from £46 10s. to £52 per ton, as to type and packing. Dehydrated borax is £60 per ton in paperlined hessian bags or £59 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s.

Boric Acid.—B.P. grade in 1 ton and upwards (per ton): Granular, £91 10s.; crystals, £99 10s.; powder, £97; extra-fine powder, £99 per ton in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags, Technical from £77 10s. to £87 per ton according to type and packing.

Calciferol.—B.P., 3s. 3d. per gm. for 1-kilo lots.

CALCIUM CARBONATE.—B.P. light precipitated powder, 1-ton lots, £33 per ton in free bags, ex works.

CALCIUM CHLORIDE. — B.P.C. fused, granulated 10½d. per lb. in 1-cwt. lots.

CALCIUM GLUCONATE. — Three-cwt. and upwards, 3s. 6d. per lb.; 1–2 cwt., 3s. 7d. CALCIUM PANTOTHENATE. — £7 10s. per kilo.

CALCIUM SUCCINATE.—10s. 6d. to 12s. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 3d. per lb.

CYANOCOBALAMIN.—Ten-gm. lots, £12 per gm.

FOLIC ACID. — B.P. and U.S.P., 1-kilo lots, £28 per kilo.

Menaphthone. — (One-kilo-lots). B.P. 170s. per kilo; acetomenaphthone, B.P., 170s.; water-soluble (menadione sodium bisulphite, U.S.P.), 180s.

METHADONE.—Subject to D.D.A. 16s. 3d. per 5 gm. pack.

METHYL PHENOBARBITONE. — B.P.C., 95s. per kilo for less than 25-kilo lots.

NICOTINAMIDE. — (Per kilo). One-kilo, 60s.; 10 kilos, 59s.; 50 kilos, 57s.

NICOTINIC ACID. — One-kilo, 39s.; 50-kilos, 36s. per kilo.

NIKETHAMIDE.—Per kilo, 100s.

OPIATES.—Home trade prices (per oz.) subject to D.D.A. Regulations:—

1 35 oz and 1

	_ [er er	35	
CODEINE		5.	d.	s.	d.
PHOSPHATE		41	0	42	0
HYDROCHLORIDE		47	3	48	3
SULPHATE		47		48	3
ALKALOID		54	0	55	0
MORPHINE	- i				
ACETATE		50	0	51	0
HYDROCHLORIDE		50	0	51	0
SULPHATE		50	0	51	0
TAKIRATE	[60	0	61	0
ALKALOID	1	61	3	62	3
ETHYLMORPHINE					
HYDROCHLORIDE		54	0	55	0
ALKALOID		63	3	64	3
DIAMORPHINE					
ALKALOID		54	9	55	9
HYDROCHLORIDE		54 59	9	60	0

PARAFFINS.—Prices to wholesale distributors are: — Liquid: HEAVY, B.P., £104 17s. 6d, per ton; LIGHT, B.P., £86 15s.; Technical White oils, £78 5s. for the LIGHT and £91 15s. for the MEDIUM. All in 40-50 gall. returnable loaned drums, delivered U.K. Soft: (Dearer from April 1). Best grades WHITE, medium consistency, £116 15s. per ton and soft consistency, £113 7s. 6d. Yellow, £94 10s., other grades (all B.P.) at £91 10s., £97, £102 10s. per ton for white and at £73 12s. 6d. for yellow. All in non-returnable drums delivered.

Pentobarbitone. — Under 25-kilo lots, 125s. per kilo; sodium, 130s.

PETHIDINE HYDROCHLORIDE. — Subject to D.D.A. Regulations, 229s. 2d. per 250 gm. PHENAZONE.—Imported, 9s. 6d. per 1b.

PHENOBARBITONE. — Spot rate 50-kilo lots, 47s. 6d. per kilo; 5-kilos, 50s. 6d.; 500-gm., 54s. 6d. Sodium salt unchanged at 55s. 6d. per kilo for 5-kilo lots.

Pyridoxine. — One-kilo, £41 per kilo; 10 kilos, £40 10s.

QUINALBARBITONE.—Under 25-kilos, 130s. per kilo.

RESORCINOL.—One-cwt. lots, 12s. 4d. per

Rochelle Salt.—Powder or granulated, 5-cwt. lots or over in kegs, 220s. per cwt.; 1-cwt. 222s. 6d. (bags less 5s.).

UREA.—Pharmaceutical grade, £59 15s. per ton in 1-cwt. bags non-returnable; technical quality, £41 5s. per ton (4-ton lots).

VITAMIN A.—Synthetic. Supplied in concentrate 1 million international units per gm. as acetate or palmitate the price is 9d. per million i.u.

VITAMIN D2.—In oil, 2 million units per gm. the price is 2d. per million intenational units. Crystalline: see under calciferol.

VITAMIN E (synthetic or natural).—Toco-PHERYL ACETATE, B.P.C., 25 gm. to 100 gm., 11d. per gm.; 100 gm. to 1 kilo, 9d. per gm.; 1 kilo and under 10 kilos, £30 5s, per kilo; 10 kilos, £29 10s. per kilo. Equivalent prices for unesterified are: 11½d. and 9½d. per gm. and £34 and £33 12s. 6d. per kilo.

ZINC CARBONATE.—One-cwt. lots, 1s. 11d. per lb.

ZINC CHLORIDE. — B.P.C. cake, 7s. per lb.; sticks, 7s. 10d. Technical, 115s. per cwt.

ZINC OXIDE.—Two-ton lots B.P. grade, £107 10s. per ton; 1-ton, £108 10s.

ZINC PEROXIDE.—One-cwt. lots of B.P., 5s. 3d. per lb.

ZINC SULPHATE. — B.P., 1-cwt. lots, 1s. 10d. per lb.

Industrial Chemicals, Solvents

ACETALDEHYDE.—The 100 per cent. is £122 per ton.

ACETATES.—Per ton, spot 1-ton lots: AMYL (technical), £254 and B.S.S., £256. BUTYL, £169; ETHYL, £141; ISOPROPYL, £136.

ACETIC ANHYDRIDE. — 10-ton lots £126 per ton, delivered U.K. in returnable drums; 1-ton, £128.

ACETONE.—One-ton lots spot, £84 per ton in drums.

BENZOLE.—Thiophene-free, 9s. 3½d. per gall. for one 50-gall. barrel; pure 6s. 3½d. per gall.

N-BUTYL ALCOHOL. — 1-5-ton lots, £159 per ton and one-ton lots, £163 per ton. Secondary, £130.

CARBON TETRACHLORIDE. — In 40-gall. drums, 1 ton and under 2 tons, £83 15s.; 4 tons and upwards, £82 5s.

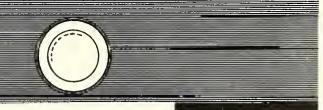
ISOPROPYL ALCOHOL. — Technical grade (99 per cent.) 5s. 0½d. per gall. for 10.000-gall. lots; anhydrous in drum lots is £108 per ton.

METHYL ETHYL KETONE. — One-ton lots, £138 10s. per ton.

Naphthalene.—Nominal home contract prices per ton for phthalic makers are around £40; spot lots £60-£70 ex works. Refined flake or ball scarce at around £80 delivered.

Phthalates. — Prices (per ton) one-ton lots: Dibutyl, £206; Di-Isobutyl, £199; Di-Ethyl, £190 10s.; Di-Methyl, £182.

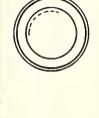
STEARATES. — Spot prices for minimum 1-ton lots:—Aluminium (all grades), 253s. 6d. per cwt.. Calcium (precinitated), 243s. 6d.; Lead (30 per cent.), 223s. 6d.; Magnesium (standard). 272s. and (superfine), 302s.; Zinc, 226s. to 286s. as to grade.



a clean plate now, Doctor







Noticeable improvement in appetite, health and wellbeing and a shortening of convalescense ... that is the experience of doctors after giving Cytacon for debility symptoms. Cytacon is oral Vitamin B₁₂. This, the most potent vitamin, makes a most effective tonic, especially for children. There are two presentations of Cytacon. It is available as a pleasant blackcurrant flavoured liquid which is readily acceptable to children, and also in tablet form.

ORAL VITAMIN B12

CYTACON

CYTACON is a Glazo trade mark GLAXO LABORATORIES LTD

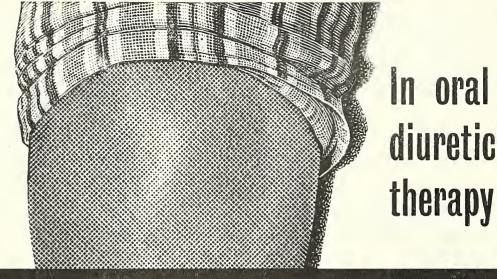


LIQUID:

Bottles of 6-oz and 80-oz (Prices: retail 4/- and 45/-; trade 36 /- doz. and 33/9 each.)

TABLETS:

Bottles of 25 and 250 (Prices: retail 4/- and 30/-; trade 36/- doz. and 22/6 each.)



AFRINOX

(BENDROFLUAZIDE)

OFFERS GREATER EFFICIENCY AND SAFETY AT LOWER COST

Initial treatment—one dose a day
Maintenance—one or two doses weekly
Minimal disturbance of serum
electrolyte levels
Less risk of hypokalæmia*

Less risk of hypokalæmia* than with other oral diuretics

BASIC N.H.S. PRICES:

'APRINOX 5 mg'—4/8d. for 25 (ex 500 pack)
'APRINOX 2.5 mg'—2/7½d. for 25 (ex 500 pack)

* Hypokalæmia can usually be avoided by dietary means alone. Useful Directions-to-Patients pads are available on request.



Available from your usual wholesale<mark>r or</mark> Wholesale Division of

BOOTS PURE DRUG CO. LTD., STATION ST., NOTTINGHAM

Telephone: Nottingham 56111 or 71 Fleet Street, E.C.4. Telephone: FLEet St. 0111 Crude Drugs

ACONITE. - Spot: Spanish napellus, 2s. 6d. per lb.

AGAR.—Kobé No. 1, 15s. 6d. per lb. in bond; shipment, 14s. 6d., c.i.f.

ALOES.—Cape primes, spot, 180s. per cwt.; shipment, 157s. 6d., c.i.f. Curação, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS.—Per lb : CANADA: Spot, 22s. for paper-filtered. COPAIBA: Spot, 8s. 6d. duty paid. PERU: Spot. 9s. in bond. Tot U (genuine as imported) nominal; B.P., 12s. 3d.

BELLADONNA. — LEAVES, 1s. 9d. per lb., spot. Dutch for shipment (t.a. not quoted) 2s., c.i.f. Root cleared on the spot. Benzoin. — Sumatra block, spot £22 to

£30 as to quality.

Buchu. — Spot new crop, 4s. 6d. per lb.; shipment, 4s. 2d., с.i.f.

CALABAR BEANS.—Spot, 2s. 3d. per lb.

CALAMUS.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

Camphor.—B.P. powder, 3s. $10\frac{1}{2}$ d. per lb. in bond.

CAPSICUMS.—Chinese, on stalk, 150s., duty paid; Ethiopian, 200s.

CARDAMOMS.—Aleppy greens, spot, 13s. 6d. per lb.; shipment, 11s. 4½d. per lb., c.i.f. Seeds, spot, 21s.; shipment, 17s. 6d., c.i.f.

Cascara. — Spot, 1960 peel, 275s. per cwt., shipment, 270s., c.i.f.

CASSIA. — Fistula, 100s. per cwt.; lignea (whole), spot 420s., duty paid.
CHAMOMILE.—Belgian, 6s. 6d. to 7s. 6d. per lb. as to quality; Hungarian type, 6s. 6d.

CHERRY BARK. -- Thin natural, 2s. 9d. per lb., as to holder.

CHILLIES.—Nigerian, 185s. per cwt. Mombasa, 350s.

CLOVES.—Zanzibar spot, 2s. 10d. per lb.; shipment, 2s. $7\frac{1}{4}$ d., c.i.f.

Cochineal.—Black-brilliant, 11s. 6d. per lb., silver-grey 10s., spot; Peruvian silvergrey to arrive 4s. 6d.

COCILLANA. — Bark, 2s. per lb., spot; 1s. 8d., c.i.f.

COLOCYNTH PULP.—Spot, 2s. to 2s. 6d. per lb. as to quality.

DIGITALIS. — Purpurea for shipment, old crop, 11d.; new crop, 2s. 4d. per lb.,

ELEMI.—Spot cleared. Shipment, 1s. 11d. per lb., c.i.f.

Ergot. — Portuguese 8s. per lb., c.i.f., for prompt shipment; spot, 8s. 9d.

Frangula.—Spot, 105s. per cwt.

GENTIAN.—Spot: French, 150s. per cwt.

GINGER.—African, spot, 155s.; new crop for shipment, 132s, 6d. per cwt., c.i.f. Jamaican No. 3, spot, 210s.; shipment, 202s, 6d., c.i.f. (new crop). Cochin, shipment, new crop, 115s., c.i.f.; spot, 140s. (per cwt.).

Gum acacia. — Kordofan cleaned sorts, 152s. 6d. per cwt., spot; new crop, March-April and April-May shipment, 134s. 6d.,

HENNA. — Indian, spot, 87s. 6d. per cwt.; new crop for shipment, 62s. 6d., c.i.f.

Honey.—Australian light amber, 100s. 10081.—Australian light almoet, 1008. to 102s. 6d. per cwt. and medium amber 95s. to 100s. Argentine, 105s. to 110s.; Jamaican, 110s. to 115s.; Canadian clover, 145s. to 150s., all ex warehouse.

IPECACUANHA. — For shipment, c.i.f., per lb.—Costa Rican, 68s.; Nicaraguan, 66s.; Matto Grosso, 51s. Spot: Matto Grosso, 53s. 6d.; Colombian, 54s.

JUNIPER BERRIES.—Italian, 90s. per cwt.; German, 130s.

Karaya. — No. 1 gum, spot 325s. per cwt. nominal; No. 2, 220s.

KOLA NUTS. — Jamaican for shipment, 7d. per lb., c.i.f. African, 5½d. spot and 4d., c.i.f.

Lanolin. — Anhydrous B.P., is from 170s. to 175s. per cwt. in 1-ton lots and hydrous, B.P., 150s., free drums, delivered. LANOLIN.

Lemon peel.—Spot, 3s. 3d. per lb.

LINSEED.—Whole, 70s. to 75s. pcr cwt.; crushed, 105s.

LIQUORICE. — Natural root: Persian on the spot, 40s. per cwt.; other varieties cleared. Anatolian decorticated, 175s. Block juice: Anatolian from 190s. per cwt.; Italian stick from 392s. to 470s. per

LOBELIA HERB.—American spot, 8s. 9d.; shipment, 8s. 3d., c.i.f., per lb. Dutch not offering.

MACE. - Whole pale blade, 23s, 6d. per lb. spot.

MENTHOL. — Chinese: spot, 86s. per lb., duty paid; shipment, 77s. 6d., c.i.f. Brazilian, 53s., in bond; shipment, 52s., c.i.f. Formosan, 54s., in bond. MENTHOL.

MERCURY. - About £69 per flask of

NUTMEGS. — West Indian 80's 12s. per b., spot; sound unassorted, 9s. 3d.; lb., spot; sound defectives, 6s. 9d.

O'RANGE PEEL. — Spot: Sweet ribbon 2s. per lb.; bitter quarters: West Indian, 1s.: Spanish, 1s. 3d.; bitter ribbon, 1s. 3d.

ORRIS ROOT.—Florentine, 335s, per cwt.

PEPPER.—White Sarawak, spot, 3s, 6½d. per lb.; shipment, 3s, 6d., c.i.f. Black Sarawak, spot, 3s, 1½d.; shipment, 2s, 11½d., c.i.f. Black Malabar, 420s. per cwt. spot, and 350s.. c.i.f.

QUILLAIA. — Spot nominal; shipment, 122s. 6d. per cwt., c.i.f.

RHUBARB.—Chinese small rounds from 5s. 9d. to 6s. 9d. per lb. on the spot.

Sarsaparilla. — Jamaican native red spot, 2s. 9d. per lb.; shipment, 2s. 3d., c.i.f.

c.i.f.

SEEDS. — (Per cwt.). Anise.—Spanish nomfinal 200., duty paid. Caraway. — Dutch unchanged at 165s., duty paid. Celery.—Indian, 150s., spot; shipment, new crop, June–July, 136s., c.i.. Coriander.—Moroccan, 125s., duty paid. Cumin.—Indian, 180s., spot; Iranian, 180s., duty paid. DILL.—Indian shipment, 80s., c.i.f., quoted. Fennel. — Chinese, 105s., duty paid; Indian, 115s., spot. Fenugreek.— Moroccan nominal following report of adverse crop conditions. Mustard.— English, 62s. 6d. to 92s. 6d., according to quality. quality.

SENNA. — *Tinnevelly* LEAVES, prime No. 1 cleared; f.a.q. No. 3, 9d. Pods: manufacturing (f.a.q.), 9d. and hand-picked, 1s. 5d. to 1s. 10d. *Alexandria* pods: Manufacturing, 1s. 6d.

SQUILL.—White 87s. 6d. per cwt., spot. STRAMONIUM. — Indian LEAVES 60s. per

cwt., spot. Dutch 0.5 per cent. alkaloid 93s., c.i.f.

STYRAX. — Spot, 28s. 6d. per lb., shipment, 26s., c.i.f.

Tonquin Beans.—Para spot, 7s. per lb. Shipment nominal. Angostura 11s.

Tragacanth. — No. 1 ribbon, £145 to £150 per cwt. No. 2, £135 to £140.

Valerian root.—Spot: Belgian, whole (max. 2½ per cent. sand) for prompt shipment, 145s., c.i.f. Dutch old crop cleared

Vanillin.—Rates (per lb.) are now:-5-cwt. lots, 22s. 3d.; 1-cwt., 22s. 6d.; 56-lb., 22s. 9d.; small quantities, 23s.

Waxes. — (Per cwt.). Bees'.—Dar-es-Salaam, spot, 460s.; shipment, 445s., c.i.f., Abyssinian, spot 390s. in bond; shipment 385s., c.i.f. Sudanese, spot, 420s.; shipment, 360s., c.i.f. Candelilla, spot, 475s. Carnauba, fatty grey, spot, 490s.; shipment, 450s., c.i.f.; prime yellow, spot, 710s., shipment, 660s., c.i.f.

Essential and Expressed Oils

Almond.—Moroccan, 6s. per lb., duty

AMBER.—Rectified on the spot, 1s. 6d. per lb.

BAY.—West Indian short on the spot, prices nominal.

Cananga.—Spot, from 37s. 6d. per lb.

CARAWAY.—Imported oil, 26s. 6d. per lb. CARDAMOM. — From 330s, per lb. for English-distilled and 260s. for imported.

Cassia. — Smalls, 18s. 6d. per lb. for 80-85 per cent.

Castor.—Home produced B.P. oil, spot, £160 per ton naked ex mill (2-ton lots).

CEDARWOOD.—American rectified 8s. per lb. on the spot.

CELERY SEED. — Dutch oil, 90s. per lb. and Chinese, 65s.

CINNAMON. — From quillings, best English-distilled is 50s, per oz.; other B.P. oils from 165s. per lb. Ceylon leaf, spot, 9s. 6d. per lb.; Seychelles, 8s., spot.

CLOVE.—Madagascar leaf, spot. 7s. 6d. per lb., duty paid; shipment, 6s. 7½d., c.i.f. Rectified 87–88 per cent., 12s. Distilled bud-oil, English, B.P., 28s. for 1-cwt. lots.

CORIANDER.—B.P. oil, 52s. 6d. per lb.,

DILL.—Imported, 38s. 6d. per lb., spot. EUCALYPTUS.—Spanish, 3s. to 3s. 6d. per lb. spot. Chinese, 3s. 3d., all duty paid.

FENNEL.—Spanish sweet, spot, 10s. per lb. GERANIUM.—Bourbon, 145s. to 150s. per lb. on the spot: Algerian, 140s.

JUNIPER. — B.P.C. 1949 oil is from 15s, per lb. on the spot. English-distilled. 150s. JUNIPER WOOD, from 5s.

Lemon.—Californian cold-pressed from 15s. 6d. per lb., spot; Sicilian, 29s.

LEMONGRASS. — Spot, 15s. 6d. per lb., and shipment, 15s. 3d., c.i.f.

NUTMEG.—Imported B.P. oil is from 50s. to 90s. per lb. as to source. English-distilled, 140s.

OLIVE. — Spot, 19s. 3d, to 20s. 3d, per gall. in drums ex wharf; shipment, £190-£205 per 1,000 kilos, f.o.b. Spanish port.

PALMAROSA. — Spot, 33s. per lb.; shipment, 30s., c.i.f.

ROSEMARY.—Spanish is 7s. 6d. per lb. on the spot for best quality.

Rue.—Spanish is 25s. per lb. spot.

SAGE.—Spanish, 8s. per lb.; Dalmatian, 19s. 6d. to 25s.

Vetivert.—Bourbon spot, 115s. to 120s. per lb.; shipment, 114s., c.i.f.

UNITED STATES REPORT

NEW YORK, MARCH 27: Easiness in GLYCERIN was the chief feature in price developments in the industrial chemicals market during the week ended on March 25. Quinidine prices advanced four cents an ounce to a new level of $78\frac{1}{2}$ cents due in a large measure to recent currency fluctuations in Germany and Holland. The trade also attributed the recent firming in the price of Brazilian MENTHOL to currency changes rather than to any drastic changes in supply or demand. There was reported to be a little more interest in TOLU BALSAM and SENEGA ROOT, Quotations were termed entirely nominal. Trade in Vanilla Beans remained virtually at a standstill pending a clearer view of conditions in Madagascar. Lower per lb. among Essential Oils were resale Formosan Citronella at \$1, down 15 cents; Spearmint, \$6.15, down 35 cents; 40—42 per cent. ester Lavender at \$4, down 40 cents; and native Cananga OIL at \$6. down 25 cents.

NOTES ON NEW MEDICAMENTS

BETNELAN.—Chemistry: 16-β-methyl-9 α-fluoroprednisolone, or betamethasone. This com-pound is an isomer of dexamethasone, from which it differs only in the change 16-methyl group from the alpha to the beta position. Isomers of this type frequently differ markedly in their degree of biological activity, but here the effects are basically similar. Betamethasone is rather more active than dexamethasone, and the slight chemical modification is also reflected in a reduced mineralo-corticosteroid action. Thus sodium retention during betamethasone therapy has been virtually eliminated, and potassium loss is also markedly reduced. Other fluorinated corticosteroid compounds include triamcinolone (Adcortyl, Lcdercort) and fludrocortisone (Florinef). Triamcinolone (9-alpha-fluoro-16-alpha-hydroxyprednisolone) also exhibits less sodium-retaining activity cortisone, but fludrocortisone (9-alphaflurohydrocortisone) has the opposite effect, and causes salt and water retention; that property is utilised in treating cases of adrenal deficiency, such as Addison's disease, where there is excessive salt loss.

CAMBISON, — Constituents: N-N'di(2-methyl-

CAMBISON, — Constituents: N-N'di(2-methyl-4-aminoquinolyl)urea, neomycin and prednisolone. The urea derivative has an antibacterial action against a number of Gram-positive organisms, and that action is supplemented and extended to the Gram-negative bacteria by the addition of neomycin. Prednisolone is included for its anti-allergic and anti-inflammatory effects. Other preparations containing a corticosterold with an antiseptic compound include Vioformhydrocortisone and Barquinol H.C. (iodochlorhydroxyquinoline with hydrocortisone).

CHOLOXIN. - Chemistry: Sodium-d-thyroxine. This isomer of l-thyroxine used in the treatment of thyroid deficiency has little calorigenic activity but has the power of reducing the concentration of cholesterol in the blood and tissues. That effect is achieved mainly by increasing the rate of excretion of cholesterol, and not by causing its deposition or by interfering with normal synthesis in the body. Sodium-dthyroxine is de-iodinated and mctabolised in the body much more rapidly than the *l*-form a change reflected in the different doses of the two drugs. Other products used to decrease the cholesterol level include Linosclerin (ethyllinoleic acid, pyridoxine and alpha-tocopherol), MER 29 (triparanol), Lipostabil and pyridoxine), Arcofac (soya phosphatides (essential fatty acids, tocopherols and pyridoxine), and Arterchol (maize oil and pyridoxine).

MAJEPTIL. — Chemistry: 2-dimethyl-sulphamoyl-10-(3-4'-methyl-1'-piperazinyl propyl) phenothiazine dimethane sulphonate. The base is also known as thioproperazine, and the compound differs from prochlorperazine only in the replacement of the chlorine in the 2-position by a dimethyl-sulphamoyl group, Prochlorperazine in turn differs from chlorpromazine in the nature of the substituent group in the 10position. Those modifications of structure are associated with marked changes in pharmacological activity; although thioproperazine has no significant scdative effects, it has powerful anti-apomorphine properties, and also an un-usual "psychocorrective" action which is of value in the treatment of schizophrenia and mania. Prochlorperazine is also known as Stemetil, and a range of other psychotherapeutic based on phenothiazine drugs available.

MILLOPHYLINE. - Chemistry: Diethylaminoethyl-theophylline camphorsulphonate. A number of derivatives of theophylline have been prepared, with the object of reducing side-effects and increasing solubility, while retaining therapeutic activity of the drug, Millophyline, theophylline has been substituted in the 7-position by diethaminoethanol. That derivative is also a metabolite of procaine, and has some cardiac and respiratory stimulant properties. The substituted base forms a stable salt with camphorsulphonic acid, and it is stated that the additional groupings reinforce therapeutic action of the theophylline moicty without any corresponding increase in side effects. Other theophylline derivatives are represented by choline theophyllinate (Choledyl), diprophylline (Neutraphylline, Silbephylline), theophylline monoethanolamine (Monotheamin), theophylline sodium glycinate (Aminomed, Englate) and hydroxypropyltheophylline (Brontyl).

NAVIDREX.—Chemistry: 6-chloro-3-cyclopentylmethyl-3.4-dihydro-7-sulphamoyl-2 H-1.2.4-benzothiadiazine 1.1-dioxide. This compound is closely related to chlorothiazide, and differs mainly in the cyclopentylmethyl substituent in the 3-position and hydrogenation resulting in the removal of the 3:4 double bond. These changes in chemical structure cause a marked increase in pharmacological activity, as 0.25 mgm, of Navidrex is stated to produce a diuresis equivalent to that of 500 mgm, of chlorothiazide. Benzthiazide (Fovane) also has 3-position substituent, being 6-chloro-3benzylthiomethyl-7-sulphamoylbenz-1:2:4 thiadiazine 1:1-dioxide; fluorine substituted diuretics include bendrofluazide (Aprinox, Centyl, Neo-Naclex) and hydroflumethiazide (Hydrenox, Rontyl, Naclex, Di-ademil). Chlorthalidone (Hygroton) is an iso-indolinone derivative. Hydrochlorothiazide is available under several brand names. Disamide represents a different type of structure, and Aldactone (spironolactane) represents a new approach to the control of ædema by blocking the salt-retaining action of the adrenal steroid aldosterone.

NUMORPHAN. — Chemistry: Dihydro-hydroxymorphinone, or oxymorphone. This derivative has a more powerful analgesic action than morphine or pethidine, and has the advantages of being less toxic and less likely to cause addiction. Other powerful analgesics include phenazocine (Narphen), dextromoramide (Palfium), levorphanol (Dromoran), dipipanone (Pipadone) and Proladone (dihydrohydroxycodeinone pectate. Another codeine derivative is dihydro-

codeinc, available as DF 118.

ORASTREP. - Constituents: Streptomycin sulphate and sulphadimidine; the suspension contains kaolin in addition, Streptomycin sulphate, although water-soluble, is not absorbed from the alimentary tract to any great extent, and so has a local action in the gut. That effect is reinforced by the inclusion of sulphadimidine, which has a systemic action and inhibits bacterial invasion of the gastro-intestinal mucosa. Kaolin has marked adsorbent effects, can be utilised to remove bacterial toxins; in dysentery its physical properties assist in the formation of normal stools. Other oral preparations of antibiotics with sulphonamides and adsorbents are represented by Guanimycin (streptomycin, sulphaguanidine and kaolin); sulphadiazine, Sulphamagna (streptomycin, phthalysulphathiazolc and attapulgite), Cremomycin (neomycin, succinylsulphathiazole and kaolin) and Ivax (neomycin, sulphaguanidine and kaolin).

PORTYN. Chemistry: 1;1-diethyl-3-hydroxypyrrolidinium bromide benzilate ester, also re-ferred to as benzilonium bromide. This substance has an anticholinergic action, and blocks or inhibits the effects of acetylcholine, which is normally released at nerve endings associated with smooth muscle and glandular organs. Such inhibition results in a reduction of gastric juice and a lessening of gastro-intestinal spasm and hypermotility. Atropine-like side effects, such as dryness of the mouth, are not uncommon with drugs of this type. Similarly acting compounds include poldine oxyphenonium (Antrenyl), tricyclamol (Elorine, Lergine), propantheline (Probanthine), pipenzolate (Piptal), hexocyclium (Tral), hyoscinerelated compounds such as Skopyl (methoscopolamine) and Buscopan (hyoscine-N-butyl bromide) and a variety of other preparations.

PRIMOGYN DEPOT 100 mgm. — Chemistry: Estradiol undecylenate. Esterification of the natural hormone of the ovarian follicles increases the period of action by delaying release of the free base in the tissue. That permits a high æstrogen level to be built up by suitably spaced doses; such a level can inhibit the growth of prostatic tumours. A similar inhibitory effect is exerted by stilbæstrol diphosphate (Honvan). This ester functions mainly as a transport agent, breaking down in carcinomatous prostatic tissue to release a high local concentration of the æstrogen. Other

œstrogen products used in prostatic carcinoma include methallenœstril (Vallestril) and chlorotrianisene (Tace).

RISUNAL.—Constituents: β-diethylamino butyric acid anilide (Amplicaine), isopropylphenazone, ethyl nicotinate and benzyl nicotinate. Amplicaine is a long-acting local anæsthetic and the phenazone derivative has some anti-inflammatory action, Ethyl and benzyl nicotinates produce local vasodilation and erythema when applied to the skin, the rapid action of the ethyl derivative being maintained by the more prolonged effect of the benzyl compound. Other formulations containing nicotinates with various additives include Transvasin (ethyl p-aminobenzoate, ethyl nicotinate, hexyl nicotinate and tetrahydrofurfuryl salicylate), Rheusalate (diethylamine salicylate, salicylamide, ethyl nicotinate), Algipan (methyl nicotinate, histamine, glycol salicylate, capsicin), No-del (ethyl nicotinate, methyl salicylate, allyl isothiocyanate, etc.), and many others,

- Constituents: Benzethonium chloride, propanediol diacetate, acetic acid and propylene glycol. Benzethonium (also known as Phemeride), is a quaternary ammonium compound with detergent and antiseptic properties; propanediol diacctate has a useful antibacterial and anti-fungal action; the acetic acid produces a suitable degree of acidity, and the solvent, propylene glycol, has the antifermentive and antifungal effects associated with simple alcohols of the ethanol type. Other products (excluding antibiotics) intended for use in othis externa are represented by Otamidyl (dibromopropamidine and diamidino-diphenylamine), Otalgan (phenazone and procaine), and Ryotol (phenyl-dimethyl-isopyrazolone and ethylene

nitrate monophenyl ether).

ZYNOTRACIN. - Constituents: Zinc bacitracin, xanthocillin and hydrocortisone. Xanthocillin is an antibiotic having a wide range of activity but, owing to its low solubility and poor absorption, it is not suitable for systemic use. Those properties are of corresponding value in dermatological conditions, as they do not influence in an adverse way the use of other antibiotic therapy that may be required for systemic infections. The range of activity of xanthocillin, although wide, does not include all the streptococci, and bacitracin is therefore included to extend the antibacterial cover. Hydrocortisone is present to allay the inflammation associated with many infected skin conditions. Other products formulated on a similar pharmacological basis are represented by Cortisporin (zinc bacitracin, neomycin, hydrocortisone), Hydroderm (bacitracin, neomycin, hydrocortisone), Ecomytrin (amphomycin, hydrocortisone), Framycort (framycetin, hydrocortisone), Cortibiotic (framycetin, prednisolone) and Cambison (neomycin, diaminomethylquinolurea, prednisolone).

WORLD TRADE

France Cuts All Customs Duties.—
The French Government has announced that all customs duties are being lowered by 5 per cent. from April 1. An official communique said the move was being made in anticipation of the Common Market 10 per cent, tariff reduction due at the end of the year, but that it would apply to all countries provided that the new duties were not lower than the common external customs tariff of the European Economic Community.

U.S./French Drug Venture.—Merck, Sharp & Dohme International, U.S.A., and Laboratories Delagrange, a French pharmaceutical company, have agreed on joint chemical and drug production in France and have announced the acquisition of all shares of Synorga, S.A., Chenove, nr. Dijon, which will be renamed Compagnie Chimique Merck, Sharp & Dohme, S.A. They also are establishing a jointly-owned drug company in Paris to be known as Laboratories Merck, Sharp & Dohme, S.A.

TELEVISION

Flgures in the columns represent number of appearances of the product during the week.

Apríl 9-15	London	Midland	North	Scotland	Wales	South	Z.E.	Anglia	Ulster
Alka-Seltzer	2	2	2	1	2	_2	1	2	2
Anadin	1	4	4	4	3	4	3	5	4
Andrews liver salts	1	2	2	2	_	_		1	1
Andrex	_	_	3	_	_	_	_	_	
Anne French	2	1	_	_	_	_	_	_	
Askit powders	_	_	—	12	_	—	_	_	_
Aspro	4	2	4	4	4	4	4	4	_
Bisodol	5	_	_	_	_	_	_	_	—
Cooper aerosols	3	1		2	3	3	2	3	3
Cutícura	2	2	_	2	_	_	_	_	2
Delrosa	—	-	_	_	_	_	-	_	2
Delsey	_	_	_	_	-	3		3	_
Dramal	1	1	1	1	2	1	2	1	1
Eno's fruit salt	_	2	_	_	2	_	_	_	_
Euthymol	1	1	1		1	1	1	1	3
Farley's	_	_	_	2	_	_	2	_	_
Gem shampoo	_	_	_	_		_	_	3	_
Haze aerosol	_	1	_	_	_	_		_	_
Horlicks	3	3	3	3	3	_3	3	3	3
Immac Imperial Leather		_	1		1		_	_	
soap	2	2	2	2	2	2	2	2	2
Iodised Balmosa	_	_	1	_	_	_	_	_	
Kleenex	_	_	1	_	_	_	_	_	_
Loxene hair cream	3	3	3	3	3	3	3	3	3
Milk of Magnesia	_	2	1	_	_	_		_	2
tablets	2	_	_	2	2	2	2	2	_
Pepsodent tooth-	_			_	_	_	_	_	
paste	2	2	2	2	2	2	2	2	2
Phillips tooth-paste	_	_	_	_	_	_		_	2
Polly Roll	1	1	1	1	1	1	1	1	1
Rimmel "Beauty on									
a Budget "	1	1	1	1	1	1	1	—	—
Rinstead pastilles	-	2	1	1	1	1		1	—
Steradent	3	2	2	2	2	1	2	2	2
Topcat	_	5	1	—	1	5	—	_	—
Velouty	3	-	-	_	_	_	_	_	_
Zal	1	1	1	1	1	1	1	1	1

PRINT AND PUBLICITY

PUBLICATIONS

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc.,
directed to doctors but available to pharmacists. Boots Pure Dr. G Co., Ltd., 37 Station Street, Nottingham: "Melsedin . . . an entirely new hypnotic " (6-p. folder).

THE BRITISH DRUG HOUSES, LTD., Graham Street, London, N.1: "Multivite and Tercin"

leaflet).

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8: "Albucid 10 per cent. eyedrops by day—Albucid 6 per cent. eye ointment by night " (card); "When anti-thyroid therapy is indicated . . . Neo-Mercazole" (4-p. leaflet).

UNCAN, FLOCKHART & CO., LTD., 16 Wheat-field Road, Edinburgh, 11: "Duncainc . . . for local anæsthesia" (8-p. booklet); "Duncaine gel . . . for urethral anæsthesia " (3-p. leaflet); "Duncaine ointment" (3-p. leaflet);

"Duncaine viscous . . . for surface anæsthesia of the upper digestive tract " (4-p. folder).

GEIGY PHARMACE TICAL Co., LTD., Wythenshawe, Manchester, 23: "Anturan . . . uricosuric agent," "Hygroton . . . patient acceptability," Tofranil . . . thymoleptic " (4-p. leaflets); "Acta rheumatologica No. 11 . . . spinal tuberculosis" (84-p. booklet).

GLAXO LABORATORIES, LTD., Greenford, Middle-sex: "Cortelan tablets and injection," "Crys-" Crystapen tapen G oral preparations," oral preparations, "Cytacon oral vitant B₁₂," "Cytamen injection of vitamin "Delta-Cortelan tablets," "Efcortelan min B₁₂," "Cytamen injection of vitamin B₁₂, "Delta-Cortelan tablets," "Efeortelan and Efcortelan-N skin preparations," "Efcortelan-N skin preparations," "Cytamen injection of vitamin tablets," "Efcortelan-N skin preparations," "Efcortelanand Eleortelan-N skin preparations," "Efcortelan and Efcortelan-N eye and ear preparations," "Efcortelan tablets," "Fersamal," "Predasin," "Prednelan tablets," "Predsol and Predsol-N eye and ear preparations," "Predsol and Predsol-N skin preparations," "Betnelan" (new and amended reference cards).

MAY & BAKER, LTD., Dagenham, Essex: "Am-AY & BAKER, LTD., Dagetinain, ESSEA: Amphactil . . . for mild depression with anxiety,"
"Protamyl" (4-p. folders); "Diaginol . . .
contrast medium" (24-p. booklet); "Flagyl,"
"Nivaquine" (blotters); "Penitriad, Penvikal,
Sulphatriad . . triple attack on infection" (blotter and 4-p. folder).

PHARMETHICALS (LONDON), LTD. (Schering A.G., Berlin), Victoria Way, Burgess Hill, Sussex: "Leucorrhœa?—try Flurymal first "(2-p. leaf-let and blotter); "Premenstrual tension, a new treatment . . , Primolut N " (6-p. folder); Scheriproct ointment and suppositories, "Pregnancy Diagnosis . . . two tablets of Primodos" (blotters).

Primodos " (blotters).

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: "Dromoran in severe pain" (4-p. folder); "Librium—abstracts from published papers" (10-p. booklet); "Noludar—non-barbiturate hypnotic" (2-p. leaflet); "Pethilorfan . . . safer pethidine" (blotter); "Which drug to choose . . . Librium and Taractan" (blotter); "Redoxon effervescent tablets" (card). "Safety of Gantrisin" (blotter).

SMITH KLINE & FRENCH LABORATORIES, LTD., Welwyn Garden City, Herts: "Skefron . . . cold spray for rapid pain relief" (6-p. folder).

spray for rapid pain reliet " (6-p. folder),
VITAMINS, LTD., Upper Mall, London, W.6:
"Vitamin B complex in high concentration . . .
Becovite and Orovite " (card); "Restoration
after confusion . . . Parentrovite " (6-p. folder);
"Vitavel syrup—sample offer " (card).

Catalogues

KODAK, LTD., Kingsway, London, W.C.2: Kodak Trade Circular, No. 4, March 1961, Pp. 6.
SANGERS, LTD., 258 Euston Road, London,
N.W.1: Amendments to 1961 catalogue. No. 3. March.

PRESS ADVERTISING

BURROWS-LYHAM, LTD., 197 Lyham Road, London, S.W.2: Quadrin, In Woman's Realm. Woman's Own, Woman's Day, Woman's Mirror, Woman's Illustrated, Woman's Weekly, Woman, Woman and Home, Housewife, Everywoman, Woman and Beauty, Modern Woman. May-December.

SEASONABLE: Display pieces for items likely to be much in demand in the next few weeks. Left: A few weeks. Left: A floor stand by Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts, in bold lettering and brilliant colours, housing a jumbled display of Cooper's aerosols. Right: a stand for the Fly-pet speciality of Imperial Chemical Industries, Ltd., phar-maceuticals division, Alderley Park, Ches.



LILIA-WHITE (SALES), LTD., Bessemer Road, Welwyn Garden City, Herts: Golden Babe disposable napkins. In Sunday Pictorial, Woman, Woman's Own, Mother, Mother and Baby, Nursery World, Parents, Nursing Mirror, Woman Health Visitor. Until mid-November.

MORNY, LTD., 201 Regent Street, London, W.1: Sandalwood. In Honey, Home, Housewife, Good Housekeeping, Woman and Beauty, Woman's Journal, Woman's Realm, Vanity Fair, Modern Woman, Queen, Everywoman, Country Life, My Home, She, Woman's Own,

POLARIZERS (UNITED KINGDOM), LTD., 26 Stamford Street, London, S.E.1: Polaroid sunglasses. In women's and national magazines.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Wednesday, April 5

CAMBRIDGE AND HUNTINGDON BRANCH, PHARMA-CEUTICAL SOCIETY, Mathew's café, 14 Trinity Street, Cambridge, at 8 p.m. Mr. G. R. Alderson (Kodak), Ltd.) on "Colour Photography for You."

COVENTRY AND WARWICKSHIRE BRANCH, PHARMA-CEUTICAL SOCIETY, lecture theatre, Herbert art gallery, at 8 p.m. Annual meeting.

SOLIETY, and West Ham Association of Pharmacists, Wanstead Hospital, Hermon Hill, London, E.11, at 8 p.m. Dr. E. Frankel on "Modern Cardiac Therapy." First of six lectures in refresher course for modern therapeuties.

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, Assembly House, Theatre Street, Norwich, at 7.30 p.m. Annual meeting.

SHROPSHIRE AND MONTGOMERYSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Town House, Wellington, Shropshire, at 7.30 p.m. Annual dinner and dance.

Thursday, April 6

BIOLOGICAL METHODS GROUP, SOCIETY FOR ANALYTICAL CHEMISTRY, Feathers hotel, Tudor Street, London, E.C.4, at 6.30 p.m. Discussion: "Principles involved in Collaborative Studies."

GUILDFORD BRANCH, PHARMACEUTICAL SOCIETY, Corona café, High Street, Guildford, at 7.30 p.m. Annual meeting.

LONDON SECTION, SO LETY OF CHEMICAL INDUSTRY, PLASTICS INSTITUTE, PLASTICS AND POLY-MER GROUP and MID-SOUTHERN COUNTIES SEC-TION, ROYAL INSTITUTE OF CHEMISTRY. University, Southampton, at 7.30 p.m. Dr. G. F. G. Barrett on "Recent Developments in Delrin."

MANCHESTER PHARMACEUTICAL ASSOCIATION AND Branch, Engineers' Club, Albert Square, at 7.45 p.m. Annual meeting.

VEST SUSSEX PHARMACEUTICAL CO Beach hotel, Littlehampton, Meeting, COMMITTEE, WEST

WIMBLEDON PHARMAC.STS' ASSOCIATION and BRANCH, Wimbledon town hall, London, S.W.19, at 8 p.m. Annual meeting, Motion: That the Association and constituent branches should be wound up.

Friday, April 7

MANCHESTER SECTION, SOCIETY OF CHEMICAL INDUSTRY, Robinson lecture theatre, Manchester University, at 6.30 p.m. Mr. D. J. Higgons on 2 6-dichloro-4-nitroaniline: a new fungicide for the control of Botrytis.'

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 2 Bluecoat Chambers, School Lane, Liverpool, 1, at 7.45 p.m. Dr. G. F. Somers (Distillers Co. (Biochemicals), Ltd.) on "The Pharmacological Assessment of New Drugs."

Advance Information

INTERNATIONAL CONGRESS ON METALLIC CORRO-SION, Imperial College of Science and Technology, Prince Consort Road, London, S.W.7. April 10-15.

ROSS INSTITUTE OF TROPI AL HYGIENE. London School of Hygiene and Tropical Medicine, Keppel Street, London, W.C.1, on July 3-7. Lay course in tropical hygiene. Details from organising secretary.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," March 22

Delayed-release pharmaceutical preparations Farbenfabriken Bayer, A.G. 867,734.

Biologically active substance from urine or supravenal glands and a process for its manufacture. CIBA, Ltd. 867,547.

N-acyl derivatives of (3:5-diamino 2:4:6-triiodobenzoyl)-auino acids and x-ray contrast media containing same. Schering, A.G. 867,880.

Nuclear iodinated $\alpha:\beta$ bis-(aminophenyl)-propionic acids and x-ray contrast media comprising same. Schering, A.G. 867,538.

I-(2, 2-dialkoxy-ethyl)-N- [(substituted-phenyl) alkyl] dihaloacetamides. Sterling Drug, Inc. 867.743.

Method of preparing a sterile crystal suspension of zinc insulin for injection, Roskilde Medical Co., Ltd. 867,440.

and radiopaque suspensious. Pharmaceutical Sterling Drug Co. 867,650.

10-hydroxydec-2-enoic acid compounds and their method of preparation. Shell Research, Ltd. 867.771.

Thixotropic pharmaceutical compositions and their manufacture. R. J. Strasenburgh Co. 867,803. Amines. J. R. Geigy, A.G. 867,918.

Hydroxyl- and mercapto-alkanoyl-amino-carboxylic acid amides and process for their manufacture. CIBA, Ltd. 867,572.

Aminoethyl tetrahydro-furfuryl alcohol and its derivatives, Merck & Co., Inc. 867,575.

Anion-exchange resins and their preparation.

Rohm & Haas Co. 867,477, -96, -97, -98.

Production of vitamin B_{12} . Uclaf. 867,537. Lysine derivatives. Uclaf. 867,788.

2:3:6-triacyloxybenzoic acids and derivate thereof and methods of making them. derivatives Kreuchunas. 867,491.

Production of acetyl pyridines. Distillers Co., Ltd. 867,489-90.

Synthetic resius having anion-exchange properties. Farbenfabriken Bayer, A.G. 867,449.

Reduction of dextrose, Engelhard Industries, Inc. 867,689.

Production of 11-bromo-undecanoic acid. Distillers Co., Ltd. 867,549.

Preparation of vitamin A acid and vitamin A alcohol, Nopco Chemical Co. 867,466.

Process for the manufacture of carotenoid com-pounds and carotenoid compounds obtained thereby. F. Hoffmann-La Roche & Co., A.G. 867.472.

Process for the synthesis of methionine. Montccatini Soc. Generale per l'Industria Mincraria e Chimica. 867,966.

Materials for cleansing the hair, E. J. F. Charret, 867,874.

Steroid derivatives, Merck & Co., Inc. 867,786. Preparation of steroids. Merck & Co., Inc. 867.787.

Process for the manufacture of prednisalone-ace-

tate. Farbwerke Hoechst, A.G. 867,887.

Process for the preparation of 5 α-preguane-3, 20-dione. G. D. Searle & Co. 867,984.

Dithio-phosphoric acid esters and pesticidal com-positions comprising them. Murphy Chemical Co., Ltd. 867,780.

Process for the production of thionophosphoric acid esters. Farbenfabriken Bayer, A.G. 867,534.

(Bis (1alkyl-1-carboxy-1-hydroxymethyl) phosphoric acid and method of producing same. American Cyanamid Co. 867,883.

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Preparation of neutral potassium and magnesium double carbonate. Société d'Etudes Chimiques pour l'Industrie et l'Agriculture. 868,005.

Oil-containing capsules and a process for their manufacture, National Cash Register Co. 867.797.

5-Methylene-1, 2, 3, 4, 7, 7-hexachlor-bicyclo-(2, 2, 1)-heptene-(2). Badisehe Anilin und Soda-Fabrik, A.G. 867,565.

Storage of coal gas. British Drug Houses, Ltd. 867 453

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Phosphoric acid esters. Farbenfabriken Bayer, A.G. 867,794.

British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

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CONTEMPORARY THEMES

METHICILLIN. Changes in sensitivity of lococci to. Brit. med. J., March 25. of staphy-

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ISOLATED LICHENISED fungi, Production of biologically active compounds by. Science, March 10.

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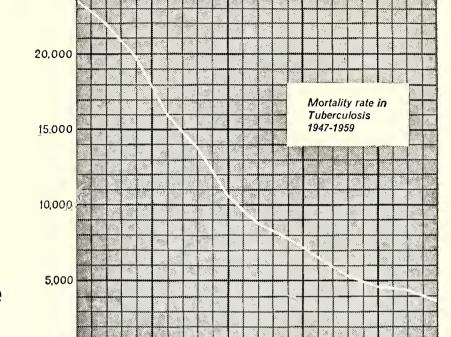
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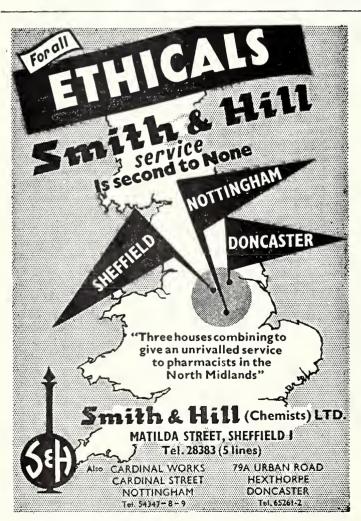
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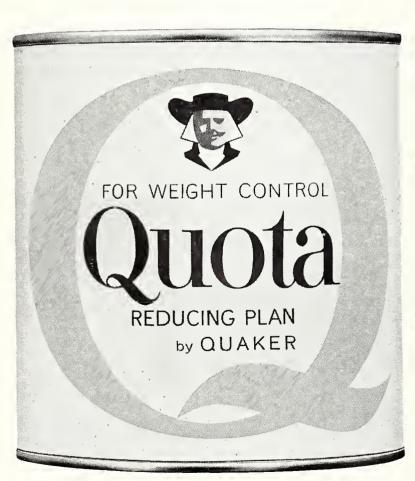
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New quota gives the user exactly 900 Calories a day. It employs no drugs or artificial bulking agents. It tastes rich and creamy and comes in three delicious flavours—Choeolate, Banana or Vanilla.

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brand DEXTROPROPOXYPHENE HYDROCHLORIDE

is solely an analgesic

65 mg. three or four times daily for prompt alleviation of severe pain.

'Pulvules' 'Doloxene' are available in strengths of 32 mg. and 65 mg.

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For conditions associated with BLOOD PRESSURE

DETENSYL

The Vegeto - Polyhormonic Hypotensor which lowers arterial tension

DETENSYL is another of the M.B.L. preparations which has been accepted by doctors in many countries. In various indications associated with blood pressure, regular administration restores normality. A small periodic dosage is recommended for maintenance.

DETENSYL contains mistletoe, liver, pancreas and lung substances. More than a palliative, it re-educates the endocrine glands, allowing them to resume their regulation of the arterial tension.

INDICATIONS

Conditions frequently associated with blood pressure, such as Menopausal Disturbances, Arteriosclerosis, Sclerosis of the Kidneys, Persistent Cephalalgia, Arthritis and Auditory and Ocular Troubles, respond to DETENSYL therapy and almost inevitably disappear with the lowering of arterial tension.



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PB37

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They are available within 3-5 days on receipt of your order and remember, Lastosheer are made by Lastonet Products—the specialists in surgical hosiery

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The Nutrition Department of Wilts United Dairies Ltd. proudly announce that they have been appointed sole distributors in the U.K. for the *Lactobacillus acidophilus* preparations developed by the Biologicals Division of Aplin & Barrett Ltd.

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NUTRITION DEPT.

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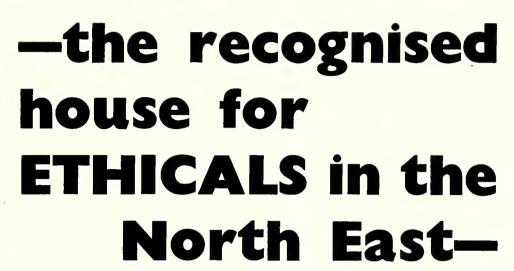


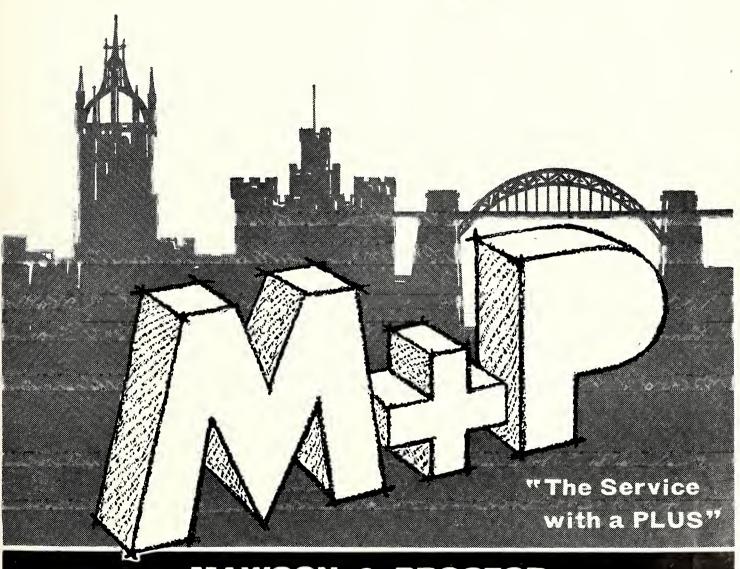
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Applications invited for new large lock-up shop to let on 21-years' lease. Suitable for jewellery, chemist, sports. records or hats. Consideration given to dividing shop into two units and letting separately. For details apply Valuer (M/C/558/3), L.C.C., County Hall, S.E.1. Waterloo 5000, Ext. 2440. C.

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SMALL L./U. SHOP in Mayfair. Ideal for chemist or drug store, adjacent to big new hotel now nearing completion. 4½ years' lease, renewable, for sale. Box C 3525.

APPOINTMENTS

BARNET GENERAL HOSPITAL, WELLHOUSE LANE, BARNET, HERTS (490 beds)

Pharmacist Pharmacist
modern and well-equipped
pharmacy (Category V Hospital).
Barnet is terminal of Northern Line (London
Transport). Whitley Council salary scale with
London Weighting. Applications to Hospital
Secretary (Phone: Barnet 7421), with names of
two referees. C 6365 mes of C 6365

CITY GENERAL HOSPITAL, SHEFFIELD, 5 (Category V Hospital)

Applications are invited for the above appointment. Post offers opportunity to gain further experience in all hospital pharmaceutical practice.

Aecommodation (for which an appropriate charge will be made) can be made available to a female applicant.

Apply giving full details of age, experience, ete., and the names of two persons for reference, to the Group Secretary, Sheffield No. 1 Hospital Management Committee, "Lyndhurst," Nether Edge Hospital, Sheffield, 11. C 6352

BARNET GENERAL HOSPITAL. WELLHOUSE LANE, BARNET, HERTS

(490 beds) Assistant-in-Dispensing

Assistant-in-Dispensing required in this modern and well-equipped pharmacy (Category V hospital), Barnet is terminal of Northern Line (London Transport), Whitley Council salary scale with London Weighting, Applications to Hospita; Secretary (Phone: Barnet 7421), with names of two referees.

C 6366

BARNET GROUP HOSPITAL MANAGEMENT COMMITTEE, WELLHOUSE LANE, BARNET, HERTS Locum Tenens Pharmacist

required for duties within this Group of Hospitals from June 1 to September 30.

Applications, giving details of experience, etc., should be sent to the Hospital Secretary, Barnet General Hospital, at the above address. C 558

CITY GENERAL HOSPITAL,

CITY GENERAL HOSPITAL,
SHEFFIELD, 5
(Category V Hospital)
Post-graduate Pharmaceutical Student
required from July 1961. Salary at the rate of
£460 per annum.
This is an excellent opportunity for a student
who is keen on hospital pharmacy to acquire
a thorough grounding in all aspects of modern
hospital pharmaceutical practice.
Please submit details of educational background
and the names of two referees to the Hospital
Secretary.

C 6389

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

management Committee
Senior Pharmacist
for Bethnal Green Hospital. Modern department approved for scale £770—£1,010 p.a. plus higher qualification allowance and apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

KENT COUNTY OPHTHALMIC
AND AURAL HOSPITAL,
MAIDSTONE
Locum Chief Pharmacist
required for period 15th to 27th May, 1961.
Salary £23 12s. 6d. weekly,
Applications with names and addresses of two
referees to the Group Secretary, Mid-Kent
Hospital Management Committee, 103 Tonbridge Road, Maidstone, Kent. C 6409

CITY GENERAL HOSPITAL, SHEFFIELD, 5

SHEFFIELD, 5
(Category V Hospital)
Locum Pharmacist
required now and during the summer.
Salary £18 18s. per week for eight-week periods
with increased rate applicable if relieving Chief
Pharmacist at the other hospital within the
group (Category II) as required.
Accommodation may be provided for a female
applicant, if required, for which the appropriate charge will be made.
Please include details of past experience and
the names of two referees in your application
which should be sent to the Hospital Secretary.

C 6386

HERTFORD COUNTY HOSPITAL, HERTFORD

(21 miles from London)

Senior Pharmacist (Category III)
Applications are invited for the above post.
Duties under the direction of Chief Pharmacist, Department responsible for purchase and issue of drugs, dressings, surgical instruments, etc., for the above and two other hospitals.
Applications giving details of age, qualifications and experience, with names of two referees to Hospital Secretary, Hertford County Hospital, Hertford, Herts.

C 6292

CITY GENERAL HOSPITAL, SHEFFIELD, 5

(Category V Hospital)

Pharmacist

Applications are invited for the appointment of Pharmacist (Basic Grade) Whitley Council Salary scales and conditions of service.

This is an interesting post in a busy acute general hospital offering an opportunity to widen experience in modern pharmaceutical practice.

practice. Accommodation may be available for a female applicant for which an appropriate charge will

be made.

Applications, including details of age, previous experience and the names of two referees, should be addressed to the Hospital Secretary.

C 6385

LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1 Locum Pharmacist

Locum Pharmacist
required at the above hospital for the period
April 24th to May 27th and from July 3rd for
eight weeks. Salary £18 18s. per week. Applications in writing to be sent to the Chief
C 6373

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Professional Valuers to the Pharmaceutical Trade.—Wholesale, Retail and Hospital Stocks. Branches throughout England and Scotland.

Appointments—Continued

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FAREHAM, HANTS

Assistant-in-Dispensing

Applications are invited for the above post (non-resident), the conditions of which are as agreed by the Whitley Council.

Salary scale is £225 at age 18 rising to £395 at age 22 or over, rising to a maximum of £535 (plus £50 p.a. for an approved qualification).

Applications giving age, experience and qualifications together with names of two referees should be sent to the Physician Superintendent as soon as possible.

C 6407

HAMMERSMITH HOSPITAL & **POST-GRADUATE MEDICAL** SCHOOL,

DU CANE ROAD,
LONDON, W.12
Deputy Chief Pharmacist
Applications are invited for the above post at above General Post-graduate Teaching Hospital (Category V). Whitley Council salary scale and conditions, £895-£1,200 per annum plus London Allowance

don Allowance.

This post provides excellent experience in all branches of pharmacy and is particularly suitable for a person with initiative, who will ultimately be seeking an important post as Chief Pharmacist.

Detailed applications, stating age, qualifications and experience and naming two referees to Secretary, Board of Governors, Hammersmith Hospital, Du Cane Road, London, W.12, by April 10.

C 6377

ROYAL FREE HOSPITAL GROUP
Chief Pharmacist (Category II)
Applications are invited for the above post at
the Hampstead General Hospital, Haverstock
Hill, N,W.3. Salary £895 to £1,200 plus London
Weighting and higher qualification allowance
if applicable. Applications addressed to Group
Chief Pharmacist, Royal Free Hospital, Gray's
Inn Road, W.C.1.
C 6371

MACCLESFIELD & DISTRICT HOSPITAL MANAGEMENT COMMITTEE, MACCLESFIELD HOSPITAL

(270 Beds) Assistant-in-Dispensing

Assistant-in-Dispensing required. Salary and conditions of service in accordance with Whitley Council Agreement. Applications, stating age and experience together with the names of two referees, to Group Secretary, "Willerby House," Cumberland Street, Macelesfield, Cheshire. C 6403

ROYAL FREE HOSPITAL,
GRAY'S INN ROAD,
LONDON, W.C.1
Senior Pharmacist

Applications invited for the above post in the
Out-patient Department. Salary £770 to £1,010
per annum plus London Weighting and higher
qualification allowance if applicable. Additional
payment for evening clinics. Applications with
names of two referces should oe addressed to
the Group Chief Pharmacist. C 6353

SEAMEN'S GROUP, DREADNOUGHT SEAMEN'S HOSPITAL,

GREENWICH, S.E.10
Locum Pharmacist
required from 17th July—5th August; 14th—
26th August; 25th September—30th September,
Weekly salary 18 guineas plus hourly rate 12/6
for two overtime sessions of two hours each
week,

AND
C 555

AND

ALBERT DOCK ORTHOPAEDIC HOSPITAL, E.16

Locum Pharmacist
required from 28th August—16th September.
Weekly salary £20 9s. 6d.
Apply, House Governor, Dreadnought Hospital,
Greenwich, S.E.10.

C 554

ST. PETER'S, ST. PAUL'S AND ST. PHILIP'S HOSPITALS,
Locum Pharmacists
urgently required, part-time and full-time. Applications to assistant Secretary, St. Peter's Hospital, Henrietta Street, London, W.C.2. Tem. 9347.

KING EDWARD VII HOSPITAL, WINDSOR Senior Pharmacist

Applications are invited for the above post. Salary £770—£1,010 p.a. Applications stating age, qualifications and experience, to Secretary.

SOUTHEND-ON-SEA HOSPITAL

SOUTHEND-ON-SEA HOSPITAL MANAGEMENT COMMITTEE

Post-graduate Student
required in the Pharmacics of the Hospitals in the Southend-on-Sea Group. Salary £460 per annum. The Hospitals are situated in pleasant surroundings and the post offers excellent opportunities for experience in all branches of pharmaceutical work including dispensing for in-patients and for patients from a busy Consultative Out-patient Department, manufacturing, sterilising, dressings and instruments. Students who contemplate sitting the Final exam. this year will be considered for appointment in September. Applications, stating age particulars of education, etc., with the names of two referees, should be sent to the Secretary. General Hospital, Sonthend-on-Sea, as soon as possible.

C 6391

SPRINGFIELD HOSPITAL, LONDON, S.W.17

required, permanent appointment. Salary £770 x £30 (1)—£800 x £35 (6)—£1,010 per annum plus London Weighting.
Applications to: Group Secretary, Springfield Hospital, Beecheroft Road, London, S.W.17, giving age, qualifications, details of experience and names of two referces. C 556

ST. PETER'S, ST. PAUL'S AND ST. PHILIP'S HOSPITALS
Chief Pharmacist
The Board of Governors invite applications for the post of Chief Pharmacist for St. Peter's Hospital, Category 1. Vacant 22nd April, 1961. Salary £815—£1,110 per annum, plus London weighting

Applications, stating age, qualifications and experience together with names of two referees to the House Governor, St. Peter's Hospital. Henrietta Street, London, W.C.2. C 6402

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BLACKPOOL CO-OPERATIVE CHEMISTS, LTD., invite applications for position of Pharmacy Branch Manager (male or female) in residential area. Salary based on scale and bonus is at present 1930 per annum, plus other emoluments, and offers scepe for progressive advancement. Superannuation scheme with transfer clause in operation. Applications stating age, experience and present position to Superintendent Chemist, Sheppard Street, Blackpool.

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MAN REQUIRED for pill coating, can be taught if necessary, also light duties. Hours 8.30 to 5 p.m. No Saturdays. Apply to George Eade, Ltd., 232 Goswell Road, E.C.1. C 557

MANUFACTURERS of Nationally Advertised Domestic Products require the services of an experienced Representa-tive to call upon Chemists, Hardware Dealers, Ironmongers and Retail De-partment Stores in East Anglia and East London postal districts.

The successful applicant will be between 35/45 years old, resident centrally in the territory and be experienced in calling on both Wholesale and Retail outlets, preferably in the categories named above. Car owner essential.

Remuneration is by Salary, Commission and Expenses. A car allowance is made and the position is superannuated.

Reply in confidence giving full personal details to Sales Manager. Box C 6412.

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An opportunity of an attractive career exists in the Medical Service Department for a male pharmacist aged 25-30, preferably a graduate with keen interest in pharmacology and therapeutics. Duties will include the handling of a wide range of technical queries and the compilation of medical literature on the Company's products. The successful candidate will later take part in the training of medical representatives.

Salary will be commensurate with age, qualifications and experience and will be progressive,

5-day week.

Superannuation Scheme.

Staff Restaurant. Write in the first instance for an Application Form to:

> Mr. A. L. Glover. Mr. A. L. Glover, Personnel Manager, Parke, Davis & Company, Staines Road, Hounslow, Middlesex.

C 6397

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Experienced Process Worker required by Wright, Layman & Umney, Ltd., for the manufacture of Galenicals. Excellent working conditions, good wages; canteen service, pension fund; 42-hour 5-day week. Apply with full details of previous experience to Works manager, 66/76 Park Street, Southwark, S.E.1. C 6406

OPTREX LIMITED

have a vacancy for a sales representative in South-west England. Applicants, who must reside or be prepared to reside in the territory, will be of good education, age not over 30 with experience of selling to retailers in the pharmaceutical trade. The position carries salary, commission and expenses; a car is provided and there is a contributory pension after qualifying period. A written application only, which will be treated in confidence, must include details of age, education, sales experience and present remuneration to Sales Manager, Optrex Limited, Wadsworth Road, Perivale, Middlesex. C 6401 have a vacancy for a sales representative

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FREE-LANCE AGENT immediately required by leading manufacturers of hairdressers' bulk supplies, to take over existing connection in the Home Counties and Hants. Must be car owner. This is an excellent position. Apply Box C 3492.

THE DISTILLERS COMPANY LIMITED

DEVELOPMENT PHARMACIST

The Distillers Company (Bioehemicals) Limited, a subsidiary of the Distillers Company Limited, have a vacancy for a Development Pharmacist in the Research and Development Department at Speke, Liverpool.

Candidates must hold a recognised pharmaceutical qualification; experience in industrial or research pharmacy would be an advantage, but is not essential. The man appointed will join a team of pharmacists developing new formulations for antibiotics and for a wide range of other drugs in an expanding field; the work covers both laboratory and pilot plant studies, and will include collaboration with production staff in the introduction of new manufacturing processes.

Write: STAFF MANAGER THE DISTILLERS COMPANY LIMITED

21/22 BOLTON STREET LONDON, W.1.

Ouote Ref.: 21/61, C.D.

C 6399

WHOLESALE (OVERSEAS)

BERMUDA DRUG FIRM requires services of a pharmacist. For full particulars write Air Mail to P.O. Box 52, St. George's, Bermuda. C 3489

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DISPENSER, experienced, requires part-time or locum work, N. London area, Phone: Tudor 0718.

WHOLESALE

YOUNG MAN, seeking employment with a good firm needing experienced tablet maker. Any county. Box C 3527.

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MANUFACTURING, PACKAGING, SHIPPING

We offer a complete service for making and filling pastes, liquids, powders, tablets, ampoules, etc.; into tins, bottles, tubes or other packs.

Our Laboratory provides qualified staff to control formulations.

Our Laboratory provides qualified start to control formulations.

In addition our despatch and shipping departments can deal with the export of the completed product.

Burgoyne, Burhidges & Co., Ltd., 274/6 Ilderton Road, Peckham, London, S.E.15 New Cross 7144

C 3496

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Leading Manufacturing Chemists require a Representative for an established connection selling to Chemists only, advertised Proprietary Products and Packed Pharmaceuticals. Experienced Representatives preferred but consideration given to applicant with knowledge of Retail Pharmacy. The Position offers a go-ahead career and considerable scope for a man wishing to earn £1,000 p.a. Car provided, Pension Scheme and full expenses.

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There is also a vacancy for a young trainee to cover Scotland. Commencing around £650 p.a. You are invited to write in strict confidence to Sales Director, Box C 6383.

THOMAS KERFOOT & CO. LTD.

offer excellent conditions of employment to an experienced representative calling on CHEMISTS ONLY in SOUTH LONDON and KENT. The man appointed will reside on the territory and will operate a company car. There is a contributory pension scheme. Apply giving full details to Sales Manager, Vale of Bardsley, Ashton-u-Lyne, Lancs.

C 6408

THE UNITED DRUG & CHEMICAL COMPANY LTD. BALLINA and LIMERICK, IRELAND

having acquired additional property at Ballina, are in a position to allocate approximately 6,000 sq. feet of their detached premises suitable for manufacture, packing and distribution of approved lines for the Pharmaceutical trade. The Directors would be prepared to enter into an agreement to manufacture, pack and distribute products confined to the Trade, or, alternatively, to lease the premises. The Firm had already a well-established and widespread connection with the Retail Chemists of the Republic of Ireland.

C 3515

WANTED

THE FOLLOWING used machinery in perfect condition required:—Gravfil Cap tightener small plastic caps, Premier Colloid Mill, semi-automatic. Peerless or similar planetary mixer, 3 or 4 speed, with stainless steel vessel, minimum 80 quarts. Filter Press, complete with pump suitable for all liquids—capacity 20/50 gallons per hour. 2 x Russell Shaker Sieves, complete with motor. Albro Powder Filler, complete with motor. Gardner or similar type Mixer suitable for face powders to hold 10 cwt. Newman Labeller, Replies to: General Manager, Delton, Ltd., 62/64 Baker Street, W.1.

URGENTLY required for cash, chemists' surplus stocks, bulk or part, particularly toilets, cosmetics, sundries, discontinued manufacturers' lines welcomed. Films, photographic equipment, sunglasses, binoculars, electric razors, Christmas coffrets and faney goods, etc. Write immediately to Reginald Loftus, 263 Portswood Road, Southampton. Tel.: 54757. C 521

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C 438

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Edinburgh: T. & H. Smith Ltd., 104 Holyrood Road.

Glasgow: Lorimer & Moyes Ltd., 7 Montrose Street, C.1. S. S. Goldberg & Co. Ltd., 6 Bishop Street,

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